

# **Kioskgifts version 1.0**

## **User manual**

**Revision 1.0**





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## 1 Introduction

### 1.1 Description

Kioskgifts is the latest generation of MITSUBISHI ELECTRIC photo kiosks, offering a wide variety of digital image printing services. MITSUBISHI ELECTRIC's printing technology means its kiosks are fast, versatile and high quality.

Kioskgifts is a reliable, user-friendly system that is directly operated by the customer. The customer can order the products and receive them while he or she waits in the case of the unit configured in stand-alone mode, although there are multiple settings and set-up options. The system also enables several Kioskgifts terminals to be connected to one or more main printing systems that will be installed in the store or in remote labs.

The Kioskgifts applications use state-of-the-art screen presentation and interaction technologies, so the user will find the experience dynamic and easy to manage.

The customer's images can be read from varied sources, such as digital camera memory cards, mobile devices, DVD/CD, network devices, Internet, etc.

### 1.2 Main services

Kioskgifts does not only provide digital photograph development, but it also offers a range of digital photography services and functions, which are described below:

- Prints: photographs can be printed in different sizes.
- Calendars: yearly or monthly calendars, using different decorative themes as calendar backgrounds. Compatible with easycalendar ®
- Photo books: automatic creation of photo albums. Compatible with EasyAlbum® and Instant photo album.
- DVD/CD burning.
- Compositions: several printed images on one sheet, using pre-defined templates.
- Collage: several images creatively arranged on a chosen background or texture.
- Frames and greetings cards: the images are placed in decorative frames, with the option of adding text.
- Mosaic Poster: the image is cut into fragments to create a mosaic made up of several printed sheets.

### 1.3 Image retouching functions

- Crop: the photograph can be cropped to remove unwanted sections or an area of the image can be selected for printing.
- Rotate: the photograph can be rotated a pre-set number of degrees so that it can be viewed better on screen.
- Red-eye reduction: the red-eye effect in photographs can automatically be removed.
- Brightness and contrast adjustment.
- Automatic level adjustments: to automatically improve dark images or with low contrast.
- Black & white and sepia effects.

### 1.4 Kiosk models

There are 2 hardware models that support the Kioskgifts software. The differences between them can be seen in each product's catalogue. Specifications may vary without prior notice from the manufacturer.

- PT7000 (only versions of hardware 4 or above):
- PT6000 (only versions of hardware 4 with Intel ® Celeron Dual Core processor or above):



PT7000



PT6000

## 1.5 System users

There are different Kiosk users depending on the type of operation they require from the unit. There are 3 main types of user:

### Customer User

This is the end customer who uses the Kioskgifts self-service system to purchase its services.

### Operator User

The operator user has permission to access the equipment's maintenance, and can validate pending orders.

### Supervisor User

The supervisor user is one of the five operator users. He or she will be an experienced operator, and has the authority to modify the system's settings, active products, prices, etc.

## 1.6 Terminology

### Service

Each of the main icons that appear on the Kioskgifts main screen is identified as a service: calendars, prints, greetings cards, mosaic poster, etc. These are the different product groups on offer.

### Order

Every time a user accesses the Kiosk, he or she requests a series of services (prints, calendars, albums) that, in turn, generate a series of jobs (10x15 print, 13x18 print, 15x20 calendar...). These services and jobs that are paid for in one single transaction make up an order.

### Service Module

Any software module specialising in carrying out a specific type of job, whether sublimation printing, DVD/CD burning, sending to other systems via a network or Internet, etc...

These are the main service modules:

- PRINTS (DPSPrintserver). It sends the jobs that are intended for the MITSUBISHI ELECTRIC sublimation printers, which share many features and communication protocols.
- LABS (DPSLab). It deals with those printing jobs that are intended for systems using technology that is not compatible with MITSUBISHI ELECTRIC machines, as well as any MITSUBISHI ELECTRIC equipment whose features do not meet usual standards. It is also characterised by its capacity to send orders via Internet to remote production centres.
- BURNS (DPSBurns). It deals with DVD/CD burning.

### Dispatcher

Software module that centralises the following activities:

- 1) Receiving the orders generated by the applications.
- 2) Validating the orders to add them to the queue. This validation takes place, for instance, when the operator enters the password before processing an order, or when the end customer selects the "Pending orders" service on the main screen and enters the validation code.
- 3) Informing of the progress and status of orders being processed.

4) Informing of the status of the different service modules, which in turn manage the output devices (printers, DVD burner, etc...).

In the Kioskgifts, this module is transparent to the end user. The operator can access it if he or she needs to solve any problems with the orders or peripherals that are being processed.

When Kioskgifts is configured in OT mode, there is no active Dispatcher in the machine itself. All the OTs will share the same Dispatcher that is located in the production machine.

## 1.7 **Modes of operation**

The Kiosk as a terminal can be configured in 4 different modes: stand-alone (with its own printers), order terminal O.T. (sending the jobs to a main printing system in the store), combined (a combination of the two previous modes) and in Kiosk isle mode, where one of the Kiosks (the production kiosk) is capable of producing the orders coming from all the other units.

### 1.7.1 **Stand-alone mode**

A Kiosk in stand-alone mode is a machine that requires no attention from staff. It has its own printers.

### 1.7.2 **Order Terminal (OT) mode**

In this mode, the machine has no means of production. These will be in a production machine within the store and networked to the terminal that enables the services to be processed exactly as with the stand-alone mode, except that there is no step for validating the order and no production phase: the terminal is left free for the next customer.

The order must be validated at the production machine, whether a Click5000 or a stand-alone Kioskgifts with its own production means (in isle mode).

### 1.7.3 **Combined mode**

In the Combined mode, the Kioskgifts basically acts as it would in the stand-alone mode but extending its output options to another additional production machine.

In this mode, the Kioskgifts machine sends its orders to 2 Dispatchers at the same time: one internal and one external.

### 1.7.4 **Kiosk Isle mode**

In Kiosk isle mode, all the kiosks work as an O.T. except one, which acts as a stand-alone terminal and a production centre for all the other units at the same time.

The installation has the following components:

- Several order terminals in the customer area.
- A stand-alone terminal in the customer area, with an optional barcode scanner.
- A ticket printer networked with the other units and located on the payment counter, in addition to the ticket printers in each kiosk.

The workflow is as follows:

- 1) The customer goes to any of the terminals (OT or stand-alone) and creates his or her order.
- 2) When the time comes to validate the order, the usual ticket is printed out at the terminal in question, with the order ID and the amount to pay, among other information. At the same

time, a validation ticket is printed out at the printer installed on the payment counter, with an exclusive ID for that order (in numerical format and in barcode).

- 3) The customer goes to the counter to pay for his or her order. Once payment has been made, the customer will be given the ticket with the order ID. The customer will be told to go to the stand-alone terminal and choose the “Pending orders” service.
- 4) The customer chooses ‘Pending orders’ on the production machine, and when he or she comes to the order validation stage, they can either use the barcode scanner or type in the numerical code manually.
- 5) The order will automatically start processing.

## 2 First boot: configuration wizard

When the machine is switched on for the first time, the configuration wizard will start. It is important to carefully follow all the steps to configure all the parameters in the shortest possible period of time.

If the configuration process is irregularly interrupted, the wizard will appear again the next time the machine is switched on.

If you want to start working with the Koskgifts unit in stand-alone mode, i.e. working with the printers that may be connected to that machine, and with a very basic configuration, all you have to do is abort the process by pressing ‘Back’ on the first wizard screen. In that case, if you want to configure the system parameters in detail, you can do so using the administration screens that will be explained in the following chapters.

### NOTE

We recommend you read the first sections of the manual to see the set-up and interconnection options for the different units, as well as the other basic concepts that appear during set-up.

Before configuring the machine for the first time, you should also follow the assembly and connection instructions: connecting the different printers and loading consumable material, connecting other peripherals, IP network cables where necessary, and switching on the Koskgifts itself.

In the following sections, you will see a step-by-step explanation of how the configuration wizard works.

## 2.1 Language during set-up and input peripherals

In the first configuration wizard screen, you are asked to select the language you wish to use during the set-up process. This selection does not set the language in which the machine will later work; it is simply for the operator's convenience during the set-up process.

The operator will also be asked if he or she has a physical keyboard or just a touch screen, which will mean a virtual keyboard will appear on screen to enable text to be written where necessary.



## 2.2 Connectivity – I: network settings

In the second step, you are asked to type in the terminal number (values from 1 to N).

This value, which numerically identifies each Kiosk installed in the store, is also used for:

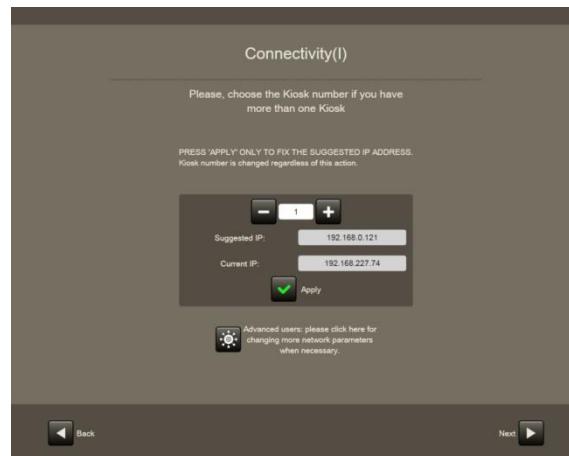
Automatically changing the fourth figure of the IP address for machines that are connected through a network. The default IP address that comes with the machines is 192.168.0.200. The IP can only be changed by pressing 'Apply'.

Automatically changing the machine's Bluetooth ID to avoid conflict with other machines in the same store.

Automatically changing the initial order number, again to avoid conflicts when the orders from different machines are sent to the same central production system. So, depending on whether the Kiosk is numbered 1, 2, 3, etc., the initial order that the production system receives will be 10000, 20000, or 30000, and so on.

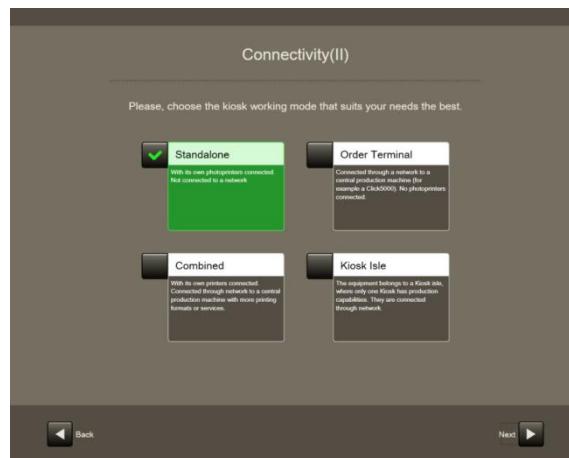
This is why it is important not to repeat this number for different Kiosks within the same store, even when they are not interconnected.

If the store's current IP installation requires more parameters to be configured, such as the netmask or the gateway, press the button for changing more network parameters.



## 2.3 Connectivity – II: mode of operation

In this step, you must choose between the four possible modes of operation specified in the “Modes of Operation” chapter in this manual.



The choice of one of them will automatically set the following, among other things:

- Which software modules have to automatically start up in the machine, according to the mode of operation.
- The default production machine for each one of the products that are automatically created for the printing services in the wizard itself.

## 2.4 Connectivity – III: production machine

If the Kiosk isle mode has been chosen, we will be asked if our unit is the isle's production machine or an OT. If our machine has not been selected as the production machine, or if we have previously chosen the Combined or OT modes directly, we will now be asked to type in the production machine's connection details:

IP address for the network connection (the default setting is the usual address for a Click5000).

SYSTEMID for the production unit: it is important to type this in correctly as this is the reference that unequivocally identifies the machine.

The alias may be any name that helps to easily identify the unit. We recommend you use short names.



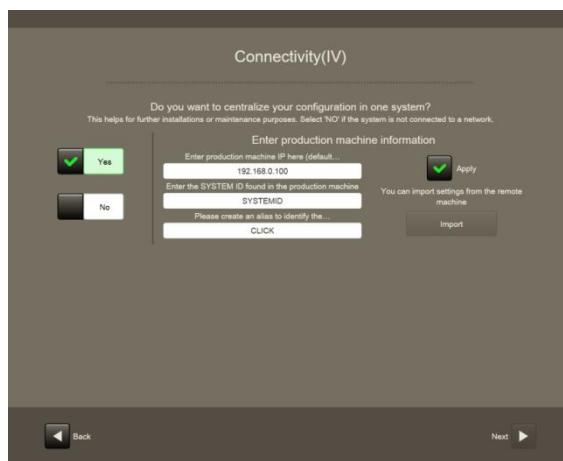
In this step, the first Dispatcher will have been created in the database. In the equipment configuration, you have the option to add different production machines at a later date.

## 2.5 Connectivity – IV: centralising configuration

In this step you will be asked if you wish to save the system configuration data at some point (including created products and prices) in a local network machine (hereinafter, “central repository”) should you wish to connect the equipment to it in the future.

It is important to point out that the central repository does not make back-up copies of each of the units connected to the network; the content of the repository is all the configuration data that is common to all those units. For this reason, if at any time you decide to update the central repository data from one of the units in the network, this data will also change for any other unit that at any time requests updating (always manually).

Should you decide to work in this way, the necessary data will be requested in order to connect to the central repository. When you press “Apply”, a connection test will be made, verifying the existence of paths and data files in the central unit. If the verification is correct, the “Import” button will be activated. This means that you can import the data from the central repository to the current unit (if the former already exists) at that precise moment.



## 2.6 System information – I: Machine name and Alias

The name of the machine must be typed in below. This will change the machine name in the operating system and it will also identify the machine in the Flexilab system (licences for software extensions, connection and register in our servers, etc.).

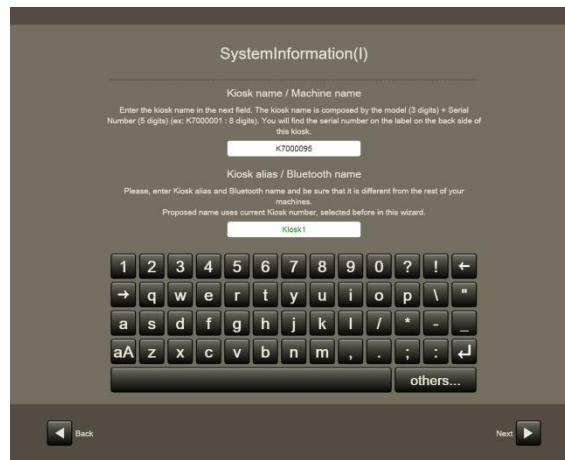
These instructions must be followed carefully:

Three characters are shown by default in the machine name field. You only need to add 5 digits more, which will be the serial number found on the label at the back of the unit.

The Alias should be a short name that you can use to easily identify this machine in settings screens, for monitoring order production, etc...

This name will also be used to identify the unit's Bluetooth® device: it is important that each Kiosk in the store has its own ID to avoid confusion when a customer sends photographs from his or her mobile device via Bluetooth® to the Kiosk he or she is working with at that time, and not to any other Kiosk in the network.

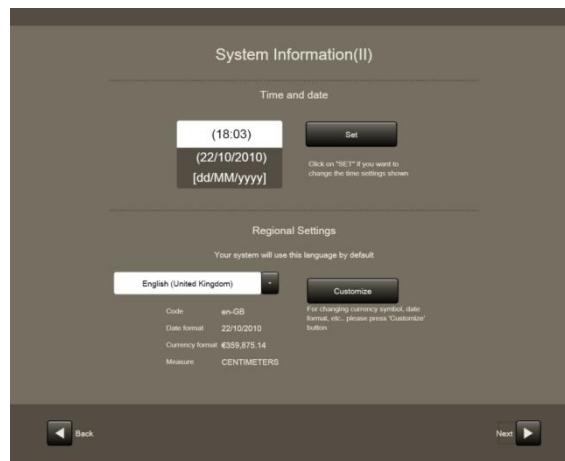
A simple name is suggested by default followed by the Kiosk number that has been typed in at an earlier stage. So the name could be 'Kiosk1', 'Kiosk2', etc...



## 2.7 System information – II: Time, date and regional settings

If the time and date settings shown are not in line with the real settings, they can be changed here.

For the regional settings (currency used, units of measurement, decimal format, etc.) you need to select the country in which the unit is operating.



## 2.8 System information – III: Store details

In this step you can register the store details.

This information is shown on the ticket. This is also used to register the unit in the MITSUBISHI ELECTRIC list of servers.

## 2.9 Delivery instructions

Due to the diversity of production destinations for each product from the range of services, you need to give the customer some basic information on screen regarding the pick-up point for each product.

So, there will be some products that the customer can pick up at the Kiosk itself, and there will be others that the customer will need to pick up at the counter or request information regarding their collection.

The general indications that may be valid in most cases are shown by default.

You do not have to give detailed instructions to the operator. This is there for the operator to have a brief reference for each product in the lists of settings, prices, etc., and so be able to easily identify each product.

In case of doubt, you should copy the content of the phrase for the end customer in the field for the operator.



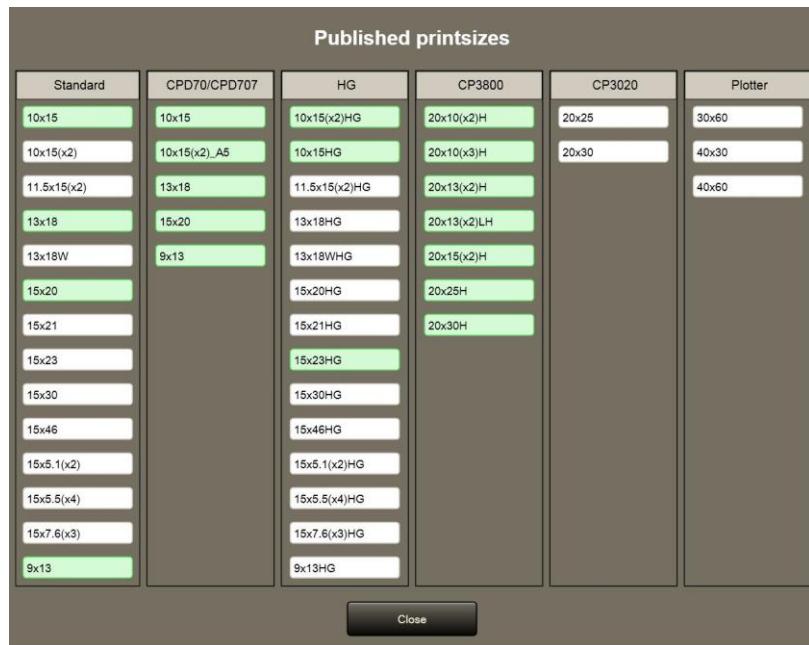
## 2.10 Format filter

When the job options that have been configured to date indicate that the unit has a production capacity in the store (e.g. stand-alone or combined mode), a form will be shown in which you can select the printer models or printing formats that you wish to offer.

What you are actually doing is to directly filter the formats published by the PRINTS service module, but you can only do this when the module to be used is the one that is installed in the unit itself. That is why this form only appears when the aforementioned conditions are met.

This helps to reduce the long list of products that will be created by default when the set-up is completed, and it also reduces the list of available formats when editing or adding a new product.

When you mark a specific format, it will remain 'visible', whereas if you unmark it, it will not be published by the PRINTS module.



### NOTE

After this step you will need to give the system some time so that the PRINTS module can correctly publish the new list. For this reason we recommend you do not jump to the last step of the wizard after completing the aforementioned step.

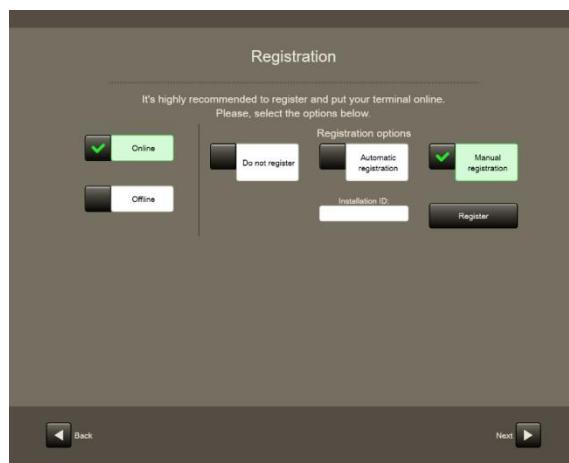
## 2.11 Register

If you decide to connect the unit to the MITSUBISHI ELECTRIC servers, we recommend you select the ONLINE option.

If you also wish to centralise the production details for the different units in different locations, or register the units for new licences, etc., the simplest way is to also register the unit.

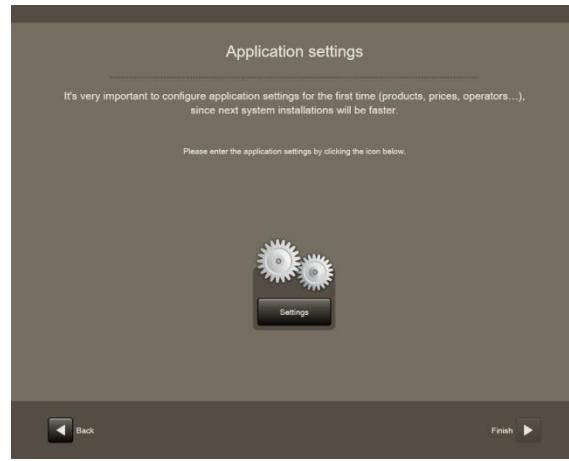
Registration can be done manually or automatically: for manual registration you will need a registration key that the installation staff or the product supplier will provide. This key relates the current unit with a group of units that have previously been registered in the servers.

The automatic key registers the unit in a common group that is not related to any corporation or chain.



## 2.12 Configuration and Finish

Throughout the configuration wizard process, certain details have been added that are necessary for the system to work correctly, whatever the selected Kioskgifts mode of operation.



The unit would be ready to start work, but it is also necessary to make a selection of all the products that have been created automatically, and, for example, set the prices for those products.

To do so, you must press the Configuration button and check anything that may need to be changed. The content of these screens is explained in detail over the following chapters.



The wizard will detect that you have entered Configuration. If you go back to the wizard screen again using the Back button, you can press the Finish button, even if you have not made any changes in the configuration.

When you finish, the wizard will restart the unit. Once the unit has restarted, the system will be ready to start work.

### 3 Service screen

To access the system's service functions, such as correctly switching off the unit, visualising the status of orders and the devices processing services that are connected to the unit, etc... you need to use the service screen.

This screen can be accessed by the supervisor user or any of the operator users, without distinction. To do so, you have to press on the upper left and upper right corners of the main screen, in this order.



A numerical keypad will appear on screen for you to type in the password.



The default password in new units is 123 for the supervisor and blank for the operators.

We recommend you change the operator password to prevent the end customer accidentally accessing the service screen, and you should also change the supervisor password to increase security and prevent different users from changing the system's configuration, such as the list of active products, their prices, etc...



Depending on the identified user, access to the system configuration will also appear available on the service screen, a function that is reserved for the exclusive use of supervisor users.

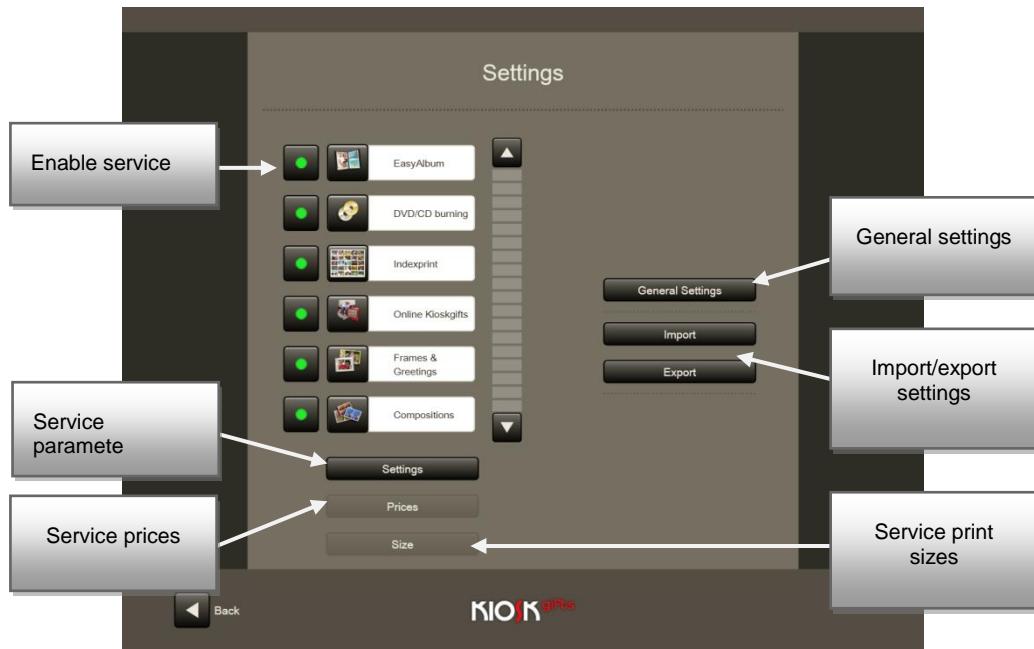
So the service screen gives access to the following functions:

- Settings (only the supervisor user)
- Dispatcher. Control module for the production of orders and production devices.
- Monitor. Module designed to start applications and other technical functions.
- Statistics.
- Visualisation of the system parameters: software version, current user, SYSTEM\_ID, and Kiosk Alias.
- Shutdown button.

**NOTE**

To switch off the system, always access this screen and press the shutdown button. Otherwise you could damage the equipment's performance or even its operating system.

## 4 Settings screens



The Settings screen can only be accessed by the supervisor user, and includes all these options.

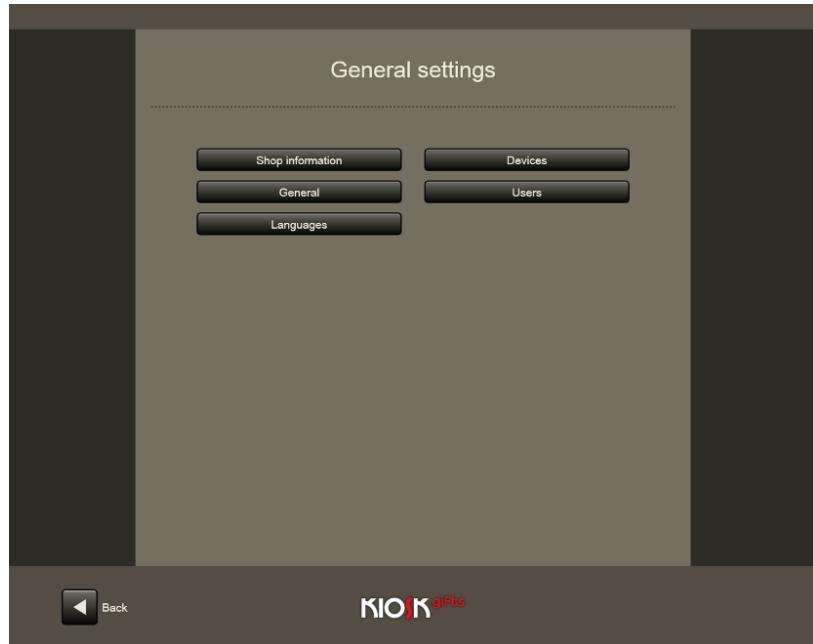
In the main panel on the left, you can enable and disable each of the services offered by the unit, pressing the button to the left of each one.

Depending on the service you have selected, you may access the particular settings for that service, the prices of the products it offers, and the settings for the associated printing sizes. Detailed information about these functions for each service is explained in the corresponding chapters in this manual.

On the right you will find access to the system's general settings and their import and export functions.

## 4.1 General settings

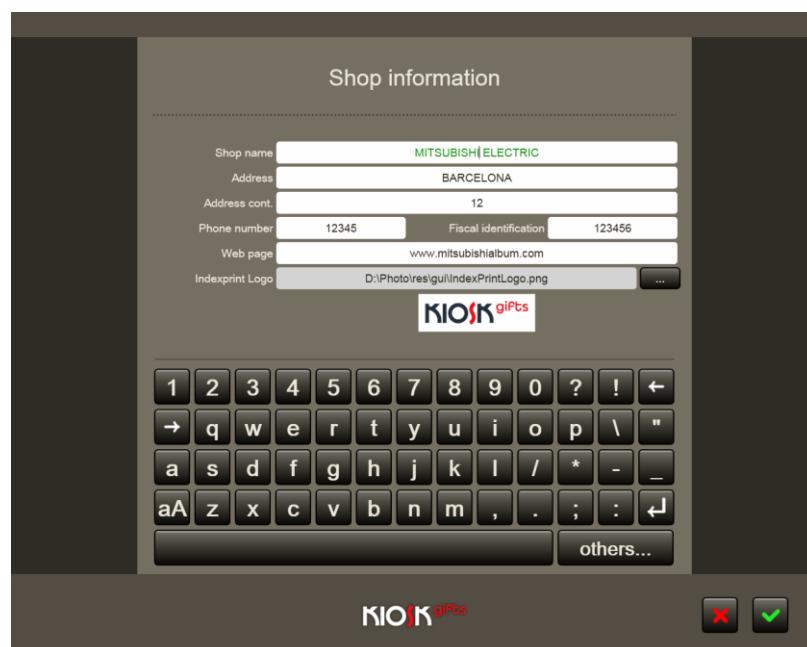
When you press the General settings button, the following screen will appear.



From this page you can configure:

- The store details
- Other general parameters
- Kiosk languages
- Devices connected to the Kiosk that are not production mechanisms: digital card reader, Bluetooth, network folder, DVD/CD...
- System users

### 4.1.1 Store details



Here you can change the details that identify the store, such as name, address, telephone number, fiscal ID and web page.

You can also change the Kioskgifts logo for another that identifies the store or chain. This logo appears on the ticket that is given to the customer, on the index print product, and on the back of the instant photo album product.

The details that appear are the system's default details or those that have been indicated during the configuration stage, except the store logo, which can only be changed here.

#### 4.1.2 General parameters



##### 4.1.2.1 Inactivity control.

- Inactivity warning time.

This is the maximum time the customer is allowed without touching the screen. After this time has passed, the system will assume the customer has left the unit in its current state and a message will appear on screen requesting interaction with the Kiosk.

- Inactivity countdown.

This is the time given to the customer to respond after the inactivity time has expired. Once this time has passed, the Kioskgifts will cancel the session and the order that the customer was preparing, and return to the main screen.

If the customer leaves his or her photo medium in the machine, a message will appear requesting said medium be removed. In the event there is no reply to this request, the staff may unlock the unit by pressing on the two top corners of the screen.

##### 4.1.2.2 Order options

- First order number.

To avoid conflict with other terminals connected to the same production unit, it is important to set an initial order number that is different for each terminal. So the orders in each terminal will belong to a different range: 10000, 20000, 30000, etc...

The order numbers will be generated cyclically: once they reach 99999 they will go back to 000001.

#### 4.1.2.3 Kiosk isle mode

This option will be marked if the unit forms part of a Kiosk isle. In this way, the unit will print the order validation code on the shared printer located at the payment counter.

#### 4.1.2.4 Taxes and discounts

- Tax value.

The additional tax values (VAT) that appear on the ticket are entered here. This value is not used in calculating the ticket: the prices must include their relevant taxes.

#### 4.1.2.5 Dynamic banner options

- Refresh time.

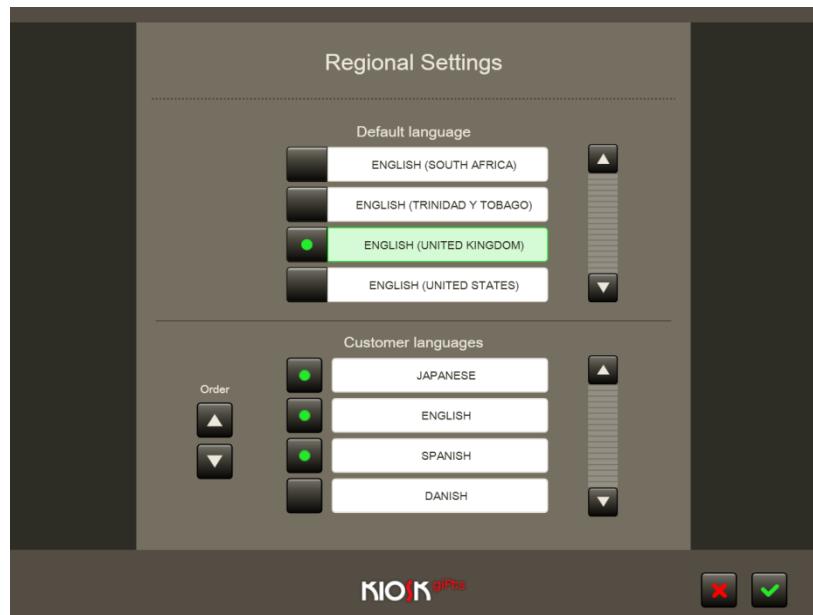
This option enables you to vary the time interval for displaying the images belonging to the advertising banner that is shown in the longer Kioskgifts processes. It may not be set below a given value.

#### 4.1.2.6 Silent printing mode

If this mode is activated, the services in stand-alone mode take place in the background. So, for example, while one customer's services are being printed out, the next customer can be using the Kiosk to create his or her orders.

This mode requires physical installation that meets certain parameters. We recommend that the outlet of the products that are being printed should be directed towards the operator zone, respecting each customer's privacy and ensuring a smooth flow of work in the store.

### 4.1.3 Languages



This screen enables you to set the languages to be used in Kioskgifts. It is split into two parts to differentiate the language Kioskgifts will use at an operator level (for the administration screens, default system language, etc...) and the languages available to the customer.



- Top section: The language Kioskgifts will use for the contents of the operator screens and for printing tickets will be defined here.

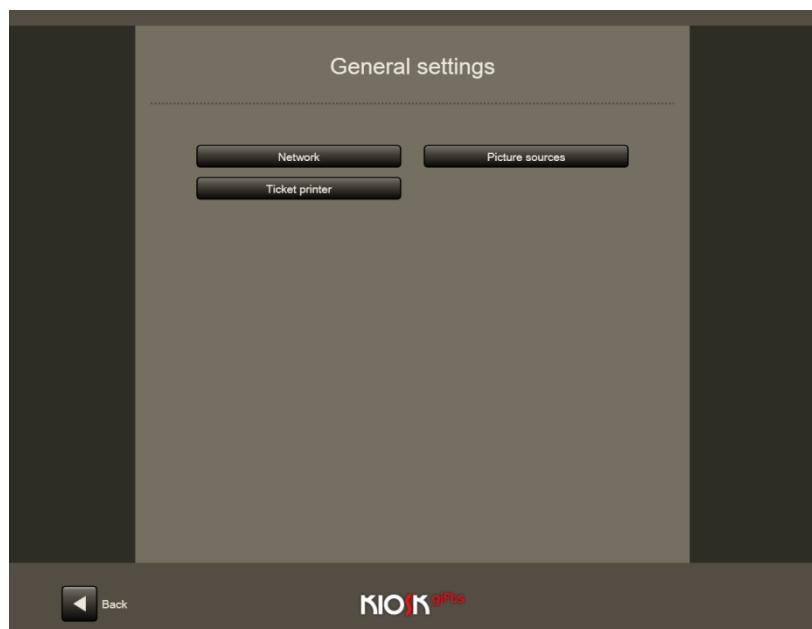


- Bottom section: Here you will find a list of the languages that are available to the customers. The button shown next to the language name enables or disables that language.

The languages can be listed according to the administrator's preferences to be shown on the Kioskgifts start screen. To do so, select the language that you want to move by pressing directly onto the name, and then move it up or down by using the arrows on the left. The language that is placed highest will be the first on the left on the main screen.

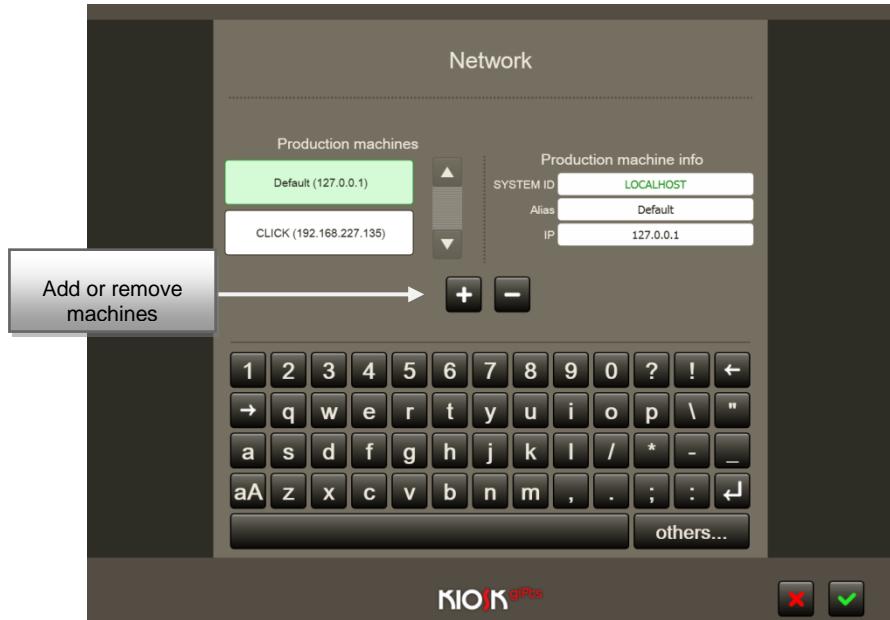
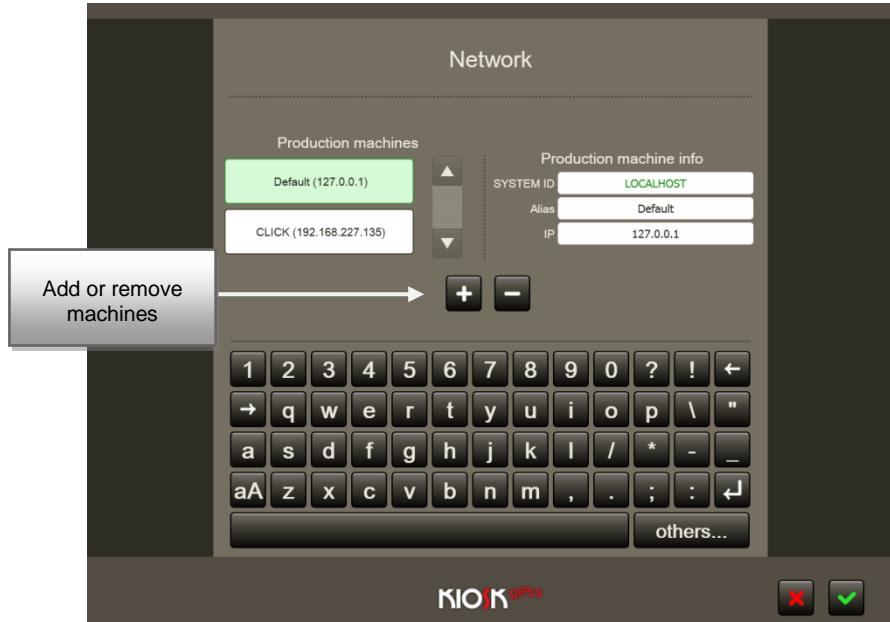


#### 4.1.4 Devices

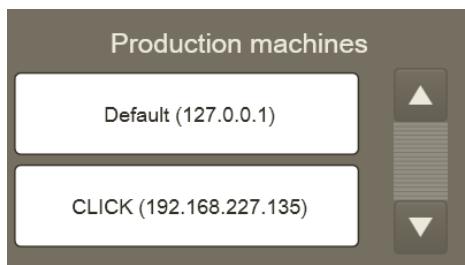


A screen where all the devices that may be personalised by the user can be configured: network connection, digital photo input sources and ticket printer.

#### 4.1.4.1 Network



In this section you can configure any possible production machines that are going to be used in Kioskgifts.



On the left of the screen there is a list of Kioskgifts production machines. If you click on any of them you will see the details on the right of the screen: SYSTEM ID, alias and IP address.

Production machine info

SYSTEM ID	LOCALHOST
Alias	Default
IP	127.0.0.1

Using the '+'/ '-' buttons, you can add a new production machine from the list, or remove the currently selected production machine.

#### 4.1.4.2 Digital photo sources



The photo sources configuration screen allows you to enable or disable sources, and where necessary, you can set the relative system path.



The disabled photo sources are not shown on the source selection screen in the Kioskgifts flow.

There are also certain applications that may decide whether or not to accept all the sources or just some of them.

In the specific case of USB, the system automatically searches for removable devices, but certain USB devices are not detected as such, and are listed as local disk drives, so an alternative path is specified when a removable device is not found, ('F:\') by default. You may find that, in certain equipment, the system uses a different letter in these circumstances. In this case, you should change the default letter for the one allocated by the system.

#### 4.1.4.3 Ticket printer



##### 4.1.4.3.1 Ticket type

You can choose the type of ticket you want to use.

NoBarcode: It includes the standard ticket content without showing any kind of barcode.

OrderBarcode: A barcode is added to the basic ticket content, with the order details included.

- Application reference.
- Customisable digits.
- Amount: Total € order.

ProductBarcode: A barcode for each product is added to the OrderBarcode content, made up of:

- Product reference.
- Application reference.
- Customisable digits.
- Amount: Total € order.

ProductReference: A reference for each product is added to the OrderBarcode content.

- It should make up the length of the product reference.

##### 4.1.4.3.2 Additional copies

Number of copies of the ticket that you want to print, apart from the mandatory printed ticket.

##### 4.1.4.3.3 Ticket printer

Select the printer where you want to print the order ticket.

#### 4.1.4.3.4 Validation ticket

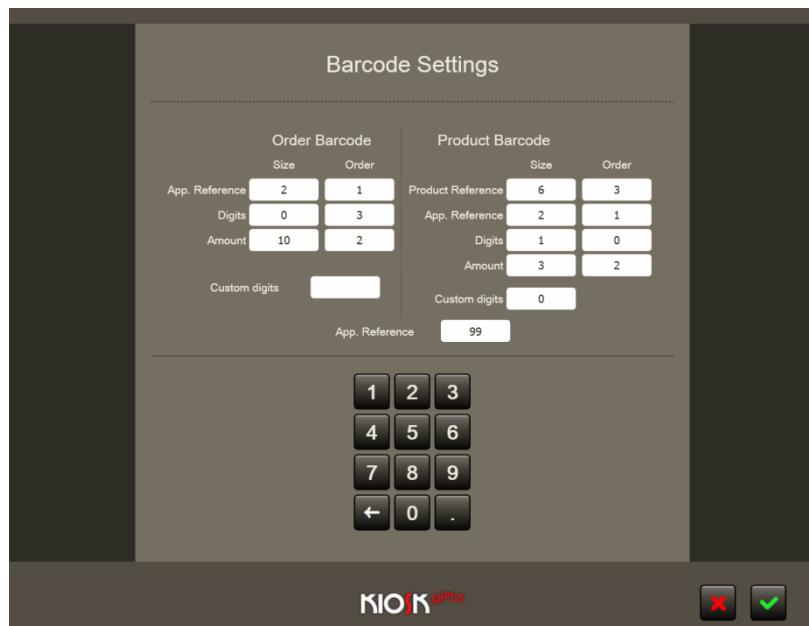
Option to enable/disable the validation ticket print-out.

When you enable this option, the ticket will be sent with a secret validation code to a printer located at the store counter or checkout.

#### 4.1.4.3.5 Validation ticket printer

Select the printer where you want to print the validation ticket.

#### 4.1.4.3.6 Barcode settings



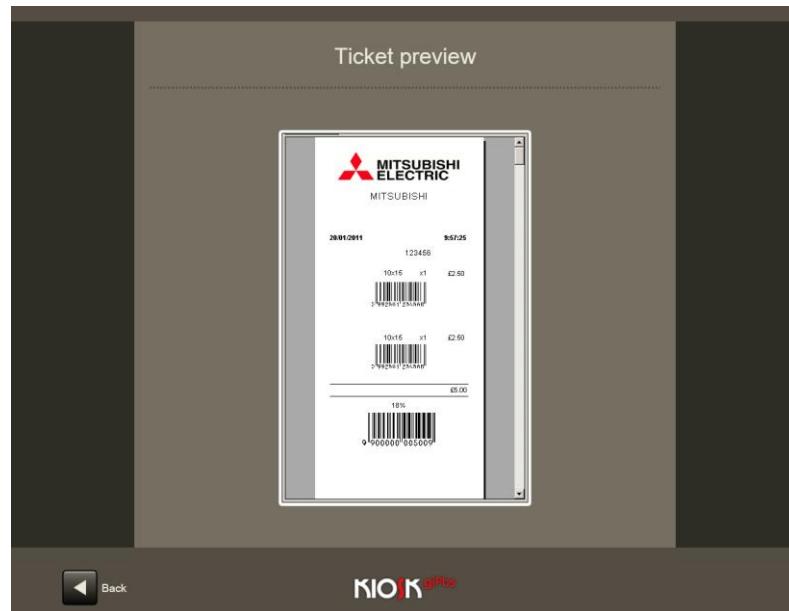
Definition of columns.

- Size: this defines the number of digits required in the specified field.
- Order: You must give each field a number to set their order of appearance in the barcode. From lowest to highest, they will be shown from left to right on the barcode.

Definition of fields.

- Application reference: Reference set for all printed order barcodes. The value of the application reference is defined in the bottom field.
- Digits: Customisable digits that you want to add to the barcode.
- Amount: Barcode digits that you want to use to show the monetary value.
- Customisable digits: Value of customisable digits.
- Product reference: A reference may be included for each product barcode; the position and number of digits to be used in the barcode can be defined on this screen.

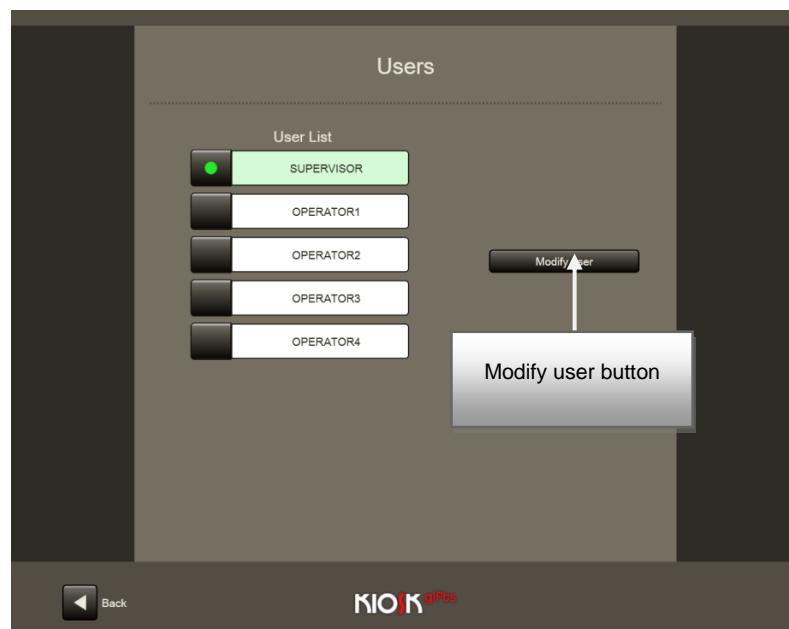
#### 4.1.4.3.7 Ticket preview



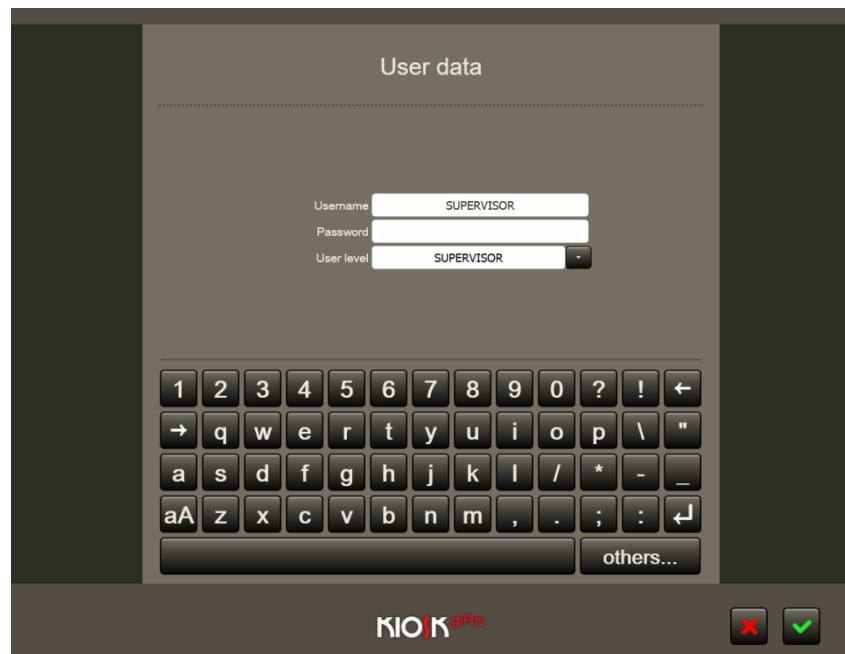
Screen showing the ticket preview, exactly as it will appear when printed. The information on this ticket will vary according to the defined parameters.

#### 4.1.5 Users

Screen where you can enable and disable users and modify their properties.



#### 4.1.5.1 Modify users



Modify user screen allows you to name the user, change the password and select the user level of security (Supervisor, Operator).

## 5 Common workflow for the end customer

Although Kioskgifts offers a wide variety of photographic services, and each of those services can have specific features regarding options and workflow, there are a number of steps that are common to most services that the end customer may select.

### 5.1 Screensaver

When the Kiosk is not being used, an animated screen will continually show the basic services offered, for advertising purposes.

As soon as the screen is touched, the animation will disappear and the main screen will appear.

### 5.2 Main screen

This screen shows the user all the services available from the Kioskgifts.

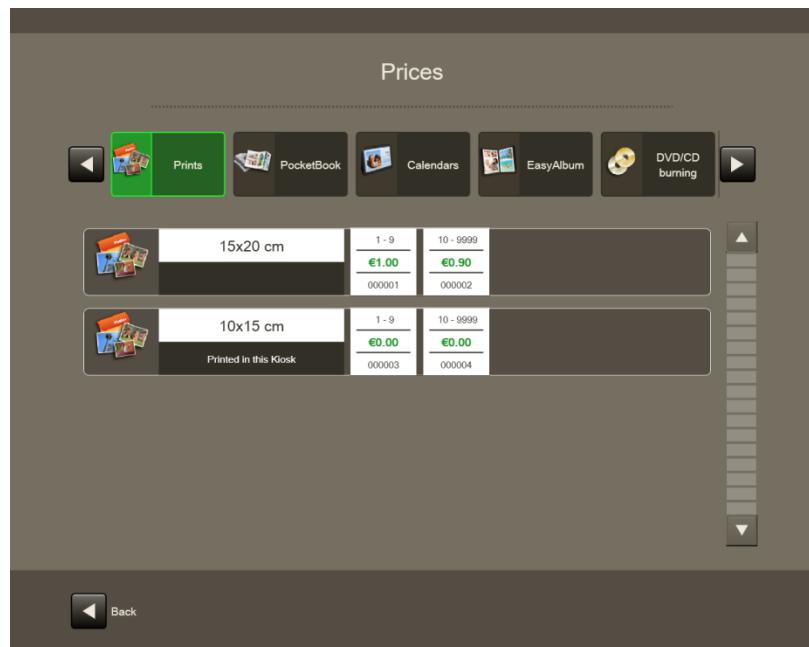


If more than 8 services are installed, the 4 that will appear in the top row are permanent, while the bottom row can be shown in rotation: the user can move the icons using the slide bar below to see all the available options, and this will also move automatically on a regular basis to show the availability of other services.

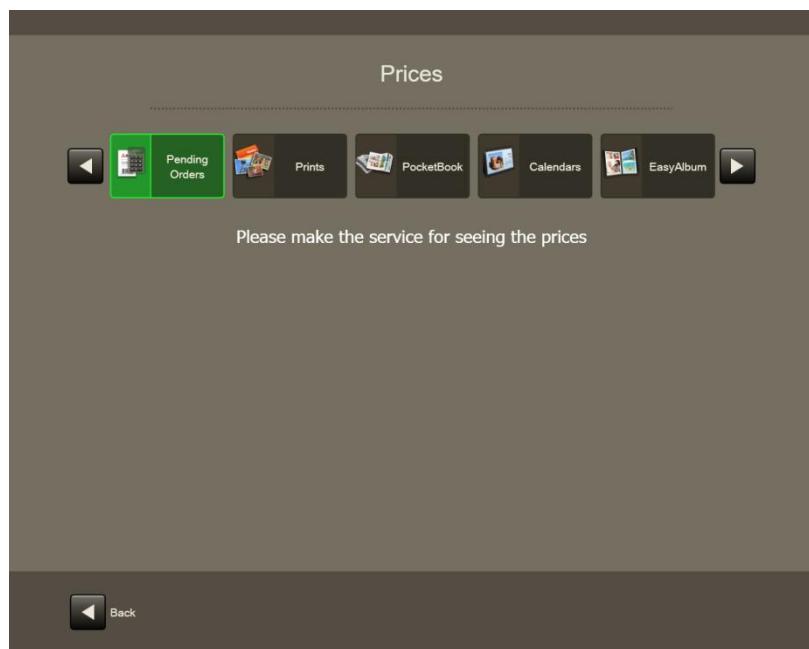
The available languages are shown in the bottom left, represented by flags. The Kioskgifts default language is shown first.

The price information button appears in the bottom right of the screen. When you press the price button, a screen will appear where you can select each service and find price information for each product. Depending on the service you select, a price grid may appear, showing the prices according to product and different price ranges according to quantity.

In the example given, for the Print service, the prices vary depending on whether you choose more or less than 10 copies of the selected print size.



In some services, price information is not given until the user starts the service, and the customer will be informed about this. The example shows the information given when checking prices for the Instant Photo album (Pocketbook).



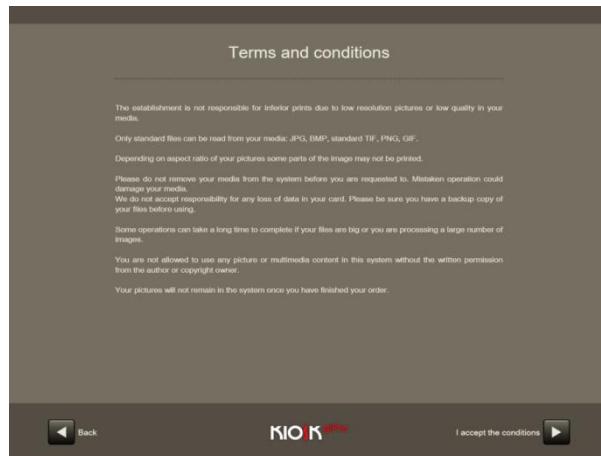
In the image below, the price information shown at the “instant photo album/pocketbook” service.



### 5.3 Terms and conditions

On this screen, the customer can read and accept the terms and conditions of use.

At this moment, the application related to the selected service is starting up, although it is transparent to the user. Until this application has started, the “I accept the conditions” button will not appear active.



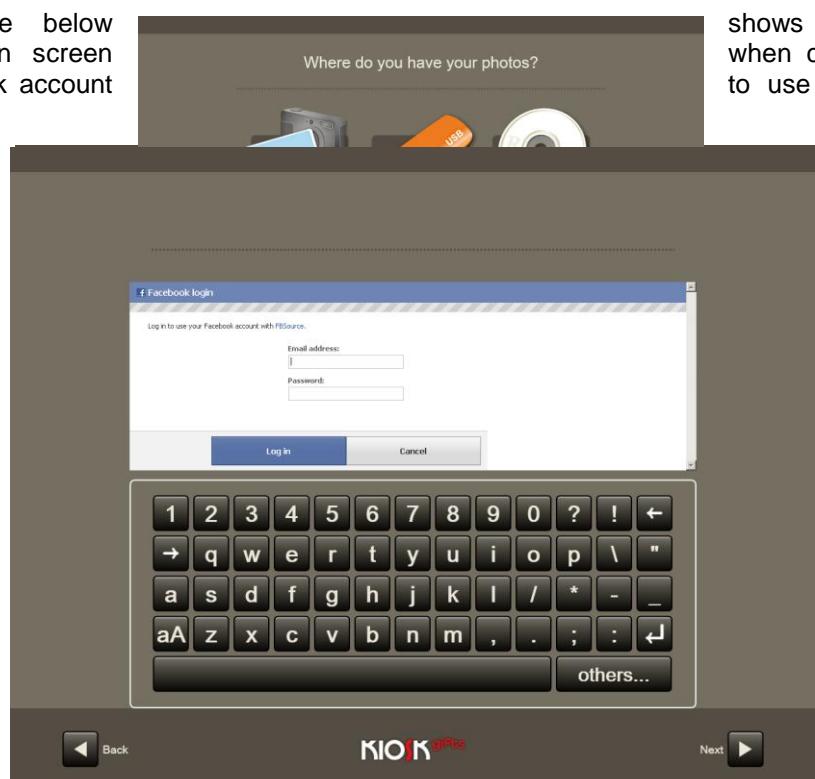
## 5.4 Choosing the photo source

On this screen, the customer will be requested to specify the source from which the images are to be read. Depending on the chosen source, the flow of the following screens and the on-screen instructions may vary.



The image below identification screen a Facebook account source.

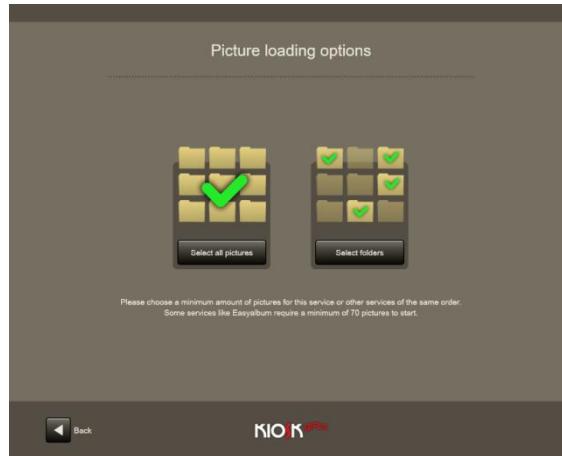
shows the when connecting to to use as a photo



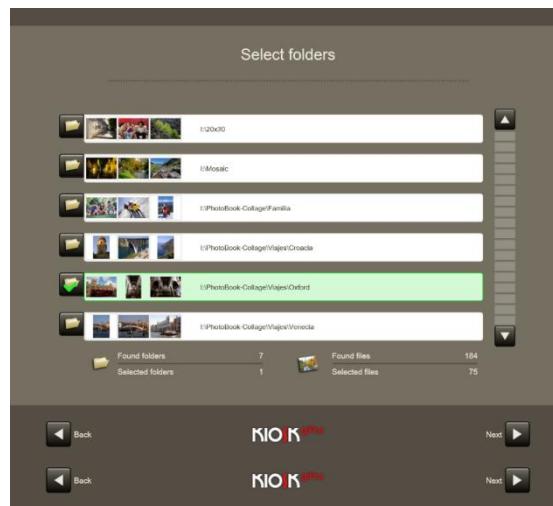
## 5.5 Photo loading options

The file source filter will save you reading and selecting time when you are working with digital camera cards, USB drives, DVD/CDs or other sources in which access to large files can make the process slow.

Firstly the machine will ask if you want to read all the photos found in the device or choose certain folders out of the total number in the device.

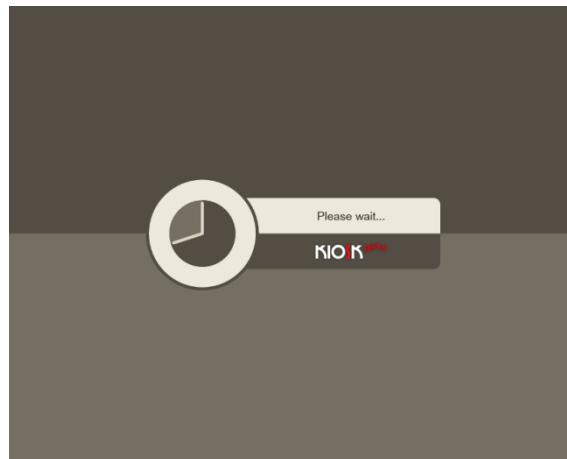


If you select the second option, a summary of the folders found will appear, along with a sample of their content. The user must select the folders containing the photos that he or she requires.



## 5.6 Service processing

When the user has selected the folders he or she needs, the following screen will appear. The application related to the service selected by the customer is now starting.

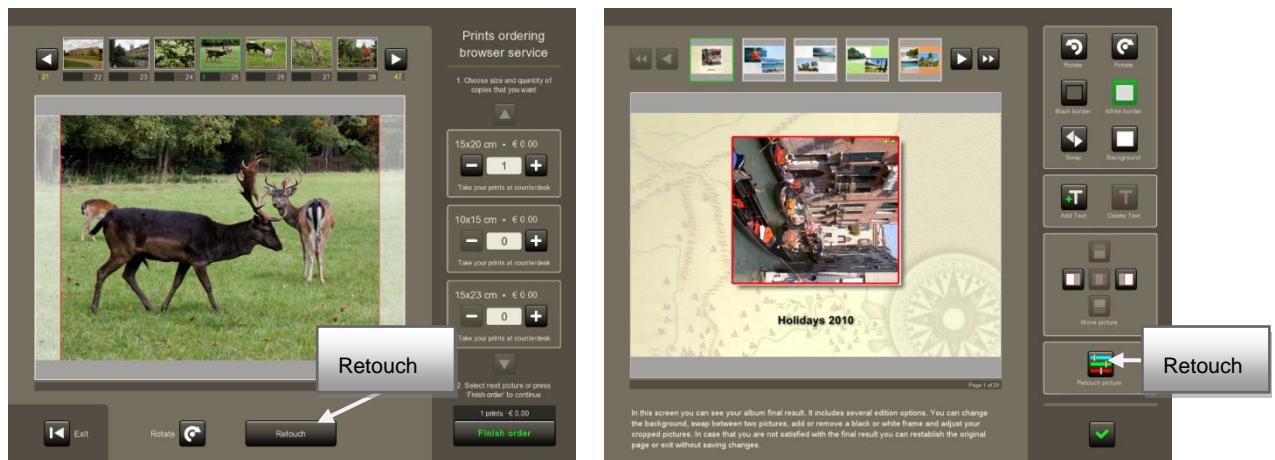


From this moment, depending on the service selected, different screens will appear that are directly related to the processing of the different products.

In order to know the flow of each service, you should access the corresponding chapters for each individual service in this manual.

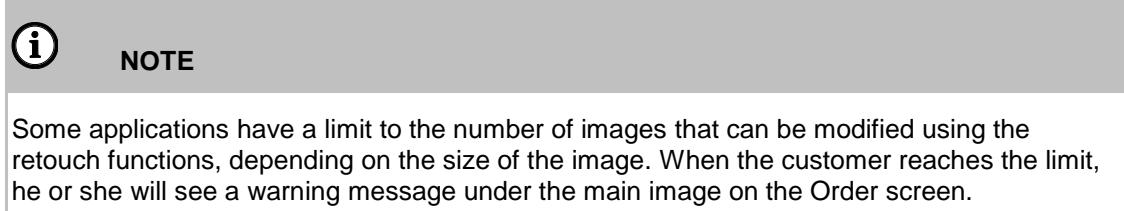
## 5.7 Image retouching

Depending on the type of service selected, you can retouch some images that you have selected.



1. Press “Retouch” to edit the image.

Once you have pressed “Retouch” you will see the following screen in which you can select the different retouching options.



### 5.7.1 Red eye reduction

When you press “Red eye reduction”, the following screen will appear:



To remove red eye effects:

1. Press the “Remove” button as often as you want until you achieve the desired result.
  - ▶ Press the “Keep pressed to compare” button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Press on the red cross to leave the image as it was and exit the screen.

### 5.7.2 Brightness and contrast

When you press “Brightness and contrast”, the following screen will appear:



To increase or reduce the effects of brightness and contrast:

1. Press the “-/+ brightness” button.
2. Press the “-/+ contrast” button.
  - ▶ Press the “Keep pressed to compare” button to show the original unchanged image.

3. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

### 5.7.3 Sepia and black & white

When you press “Sepia, black & white”, the following screen will appear:



To convert an image into a black & white picture:

1. Press the “Black and white” button.
  - ▶ Press the “Keep pressed to compare” button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

To change an image to sepia:

1. Press the “Sepia” button.
  - ▶ Press the “Keep pressed to compare” button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

#### 5.7.4 Automatic level

When you press “Automatic level”, the following screen will appear:



To automatically improve the image:

1. Press the “Auto” button.
  - ▶ Press the “Keep pressed to compare” button to show the original unchanged image.
2. Click on the green tick to save the changes.
  - Click on the red cross to leave the image as it was and exit the screen.

#### 5.7.5 Zoom and Crop.

When you press “Zoom and crop”, the following screen will appear:



To make the image larger or smaller:

1. Use the arrows to select the part of the image you are interested in.
2. Press the “-/+ zoom control” buttons.
3. Click on the green tick to save the changes.

You can crop the images in two formats:

- Portrait.
- Landscape.

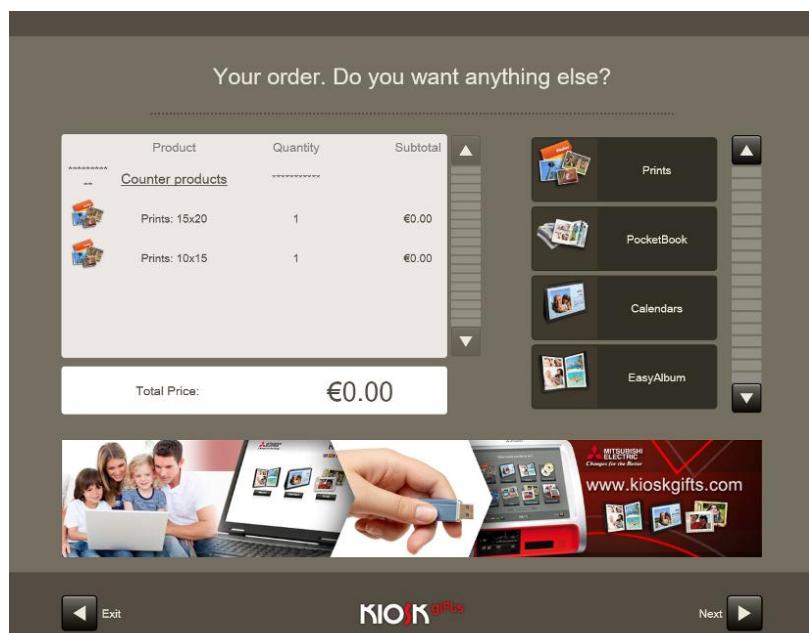
To crop the image:

1. Use the arrows to select the part of the image you wish to crop.
2. Press the “Portrait/Landscape” buttons.
3. Click on the green tick to save the changes.

• Click on the red cross to leave the image as it was and exit the screen.

## 5.8 Order summary

After the service has been processed, a screen will appear with a summary of the selected products and their cost.



This screen also shows the active services in the machine to let the customer know that he or she may select one of them for the images that have already been selected for any of the other services.

When you click on any of these services, Kioskgifts will start a new service with the folders that the customer chose at the beginning.

If the customer decides to choose new folders with new images for this new service, he or she should finish the current service and then open a new one.

**NOTE**

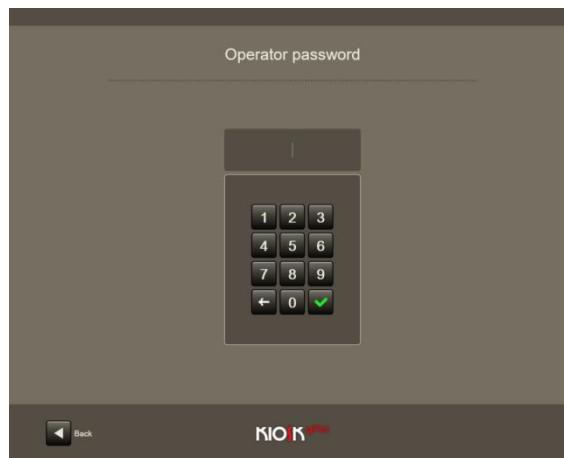
The customer may repeat this cycle as many times as he or she requires, although each time he or she uses a product from a specific service, this product will no longer be available in the next round.

To finish the current service, press 'Next'.

At the bottom of the screen you will see the advertising area that appears in other points of the programme. The time interval between the different adverts can be changed in the equipment configuration area.

## **5.9 Order validation**

When the unit is in OT mode (also in the case of Kiosk isle mode) or in combined mode, a screen will appear requesting the operator password. With the ticket that will be printed out at this point, the customer must go to the checkout to pay for the order, and the operator will validate it on the machine itself.



## **5.10 Order production**

In stand-alone mode, the unit will start all the pending processes and inform the end customer of their progress, as well as providing an estimated time of completion.



If the services involve printing on the premises, the prints will appear consecutively at the printer outlets.

In the case of DVD/CD burning, the user will be asked to insert a blank DVD/CD to be burned.

If at any time the progress bar is seen to be at the same point for a long period of time, this means that there is probably an error with the order. To verify this, the operator can go to the Kioskgifts and press the caution triangle shown in the middle of the screen.



The operator will then be asked for his or her password. Once the password has been typed in, a dialogue will appear where you can choose between accessing the Dispatcher to verify the real status of the order or to cancel it directly.



## 5.11 Removing the device

Before showing the final screen, the customer is reminded to remove the digital image source (where applicable), such as a memory card, USB drive, DVD/CD, etc. The system will wait until there is no device inserted before it moves on to the next screen.



## 5.12 Goodbye message

The final screen thanks the customer for using the Kiosk and in some cases it will indicate how to collect the services that have been processed.

To go back and start again, you have to push the bottom right button, or wait a few seconds...



## 6 Available services

### 6.1 'Prints' service



This service enables the customer to print photographs in a wide variety of formats. The pictures can be printed at the Kioskgifts itself, if it has a built-in printer, or at a local production centre on the premises or at a remote lab.

TO SEND JOBS TO A REMOTE LAB OR ADDITIONAL PRINTING SYSTEM TO THE MITSUBISHI ELECTRIC SYSTEMS, PLEASE CHECK WITH YOUR USUAL SUPPLIER.

These are some of the possible paper formats that Kioskgifts offers:

- 10x15 cm (4"x6"). The most commonly used format for standard prints
- 7.5x10 cm (3"x4"). Recommended size for low resolution photographs.
- 9x12 cm (3.5"x4.7"). Alternative size for low resolution photographs.
- 13x18 cm (5"x7"). Intermediate size for portraits.
- 15x20 cm (6"x8"). Used for enlargements or portraits.
- 15x21 cm (6"x8.5"). Used for enlargements or portraits.
- 15x23 cm (6"x9"). Used for enlargements or portraits.
- 11.5x15 cm (4.5"x6"). Recommended format for digital cameras. Keeps the 4:3 image format as seen on the digital camera screen.
- 20x25 / 20x30. The largest format offered by MITSUBISHI ELECTRIC printers.

### 6.1.1 ‘Prints’ service: workflow

After the customer has chosen the folders with the photos, he or she will move on to the following steps:

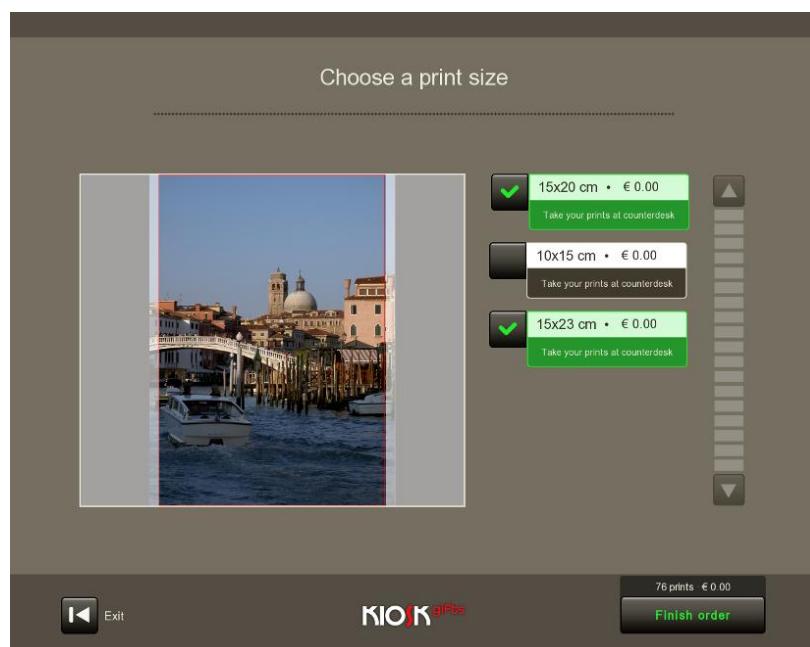
- The customer chooses between printing one copy of all the photos, 2 copies of all the photos, or a manual selection.



- For 1 or 2 prints of all the photos, the following screen will be shown.

On the left you will see an image from the selection. On the right, the customer will choose the print size, and can select several at the same time. For each print size, the price and pick-up point will be shown (at the Kioskgifts itself or any other production locations).

The photo margins that are not going to be printed will be clearly visible (the lighter section outside the red line) depending on the difference between the aspect ratio for the print area and the photo itself. When several print sizes have been marked, the most restrictive case is always shown.





b.2) If the customer chooses the manual selection in point a), the following screen will be shown.

In this screen, the customer can look at all the photos that have been filtered, and order different print sizes for each photo, rotate them (merely to view them better, the result will not be kept permanently in the original file) and edit the brightness and contrast, apply black & white or sepia effects, adjust the colour, etc. by pressing the 'Retouch' button.

The photos will appear in miniature and in chronological order at the top of the screen. The selected photo (marked green) will also appear as the main image.

In the panels to the right of the main photo, the customer can add the copies required for each different printing format. In each print size box, the price per unit, number of copies and pick-up point are also shown.

The total number of copies for each photo, including the different printing formats, is shown below each miniature on the top panel.

The accumulated price for this service is shown in the bottom right button. Press this button to confirm selection and continue the flow.



c) After points b.1 or b.2, you will be asked if you wish to add a DVD burning service or index print:

- DVD burning.

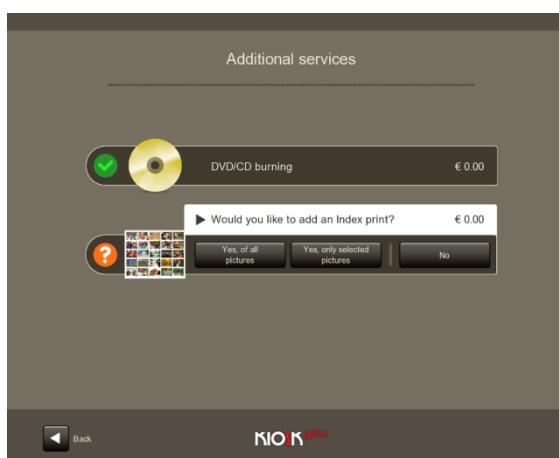
You can choose between burning a DVD with all the photos from the folders that were selected at the beginning, or only those that have been selected for the current service. These questions will not appear again in any other services that the customer may add to the same order. DVD burning is, in any case, always available as a service whenever the customer has the option to choose between all the services.



- Index print.

Next you will be asked if you wish to make an index print of all the photos contained in the folders, or only the selected photos.

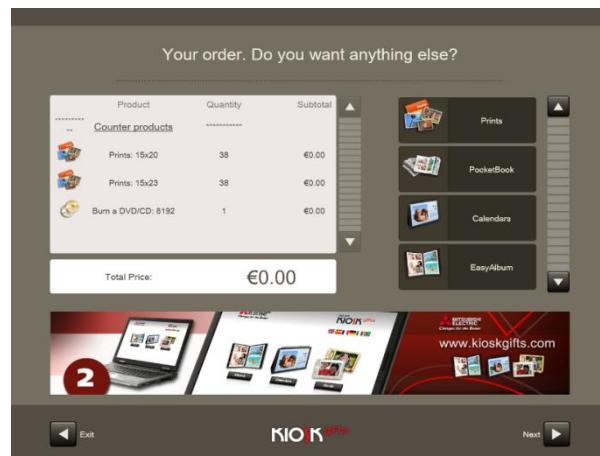
The index print will always occupy a single sheet, the size of which is specified in the configuration section (usually 10x15 by default), and therefore it contains an automatic selection of all the photographs.



d) Finally the service takes all the necessary information to create the files needed for production. Depending on the type of service, this may take a few seconds or several minutes (as is the case of an album with several pages and a considerable amount of photos).



e) The service closes and Kioskgifts is once again in control, so that the customer can add more services or finish the current order, as seen in the relevant chapter.



### 6.1.2 'Prints' service administration: product creation.

Due to the vast array of options offered by the Kioskgifts, you need to configure a set of parameters for each product in each service. So, for the Prints service, for every print size you must specify the production machine, output module, the consumable paper size, and the final print format (there may be several for each consumable size).

To configure the print service products, select the 'Prints' service on the settings screen. Next, press the 'Products' button.



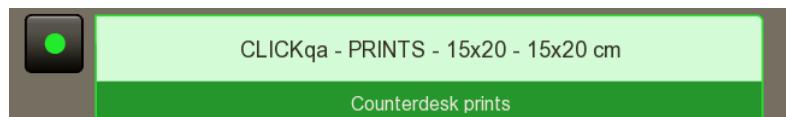
The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kioskgifts user, will be shown.





The following information is shown for each product on the list:

- Product ID, including:
  - name of the destination machine
  - type of output module (PRINTS, LABS, BURNS)
  - type of consumable
  - print format.



In the example, the name of the destination machine is CLICKqa, the service module is PRINTS (therefore we know it is a product that can be printed instantly using MITSUBISHI sublimation printers), the type of consumable is 15x20 and the print format is also 15x20.

In some cases, the type of consumable and the print format may differ, as is the case, for example, when printing 2 copies of 10x15 photos on a 15x23 consumable sheet. In that case, the type of consumable would be 15x23 and the print format would be 2x10x15.

- Description of the pick-up point

Due to the fact that different production destinations can be configured for each product, it is important to make it clear to the operator which pick-up point is used for each one.

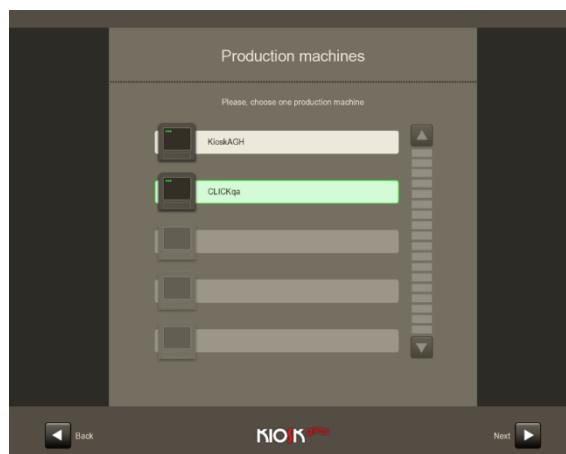
This description may be the same as that shown to the end customer, or it may be an even shorter description. This is explained in detail further on in this section of the manual.

When you press the 'Add product' or 'Edit product' buttons, the product configuration wizard will start. The following sections will explain the steps in detail.

#### 6.1.2.1 Production machine.

The first step is to select the production machine to which the product will be sent.

According to the system settings, more than one option may appear. These could be the Kioskgifts itself (in stand-alone mode), or another Kioskgifts machine (as is the case in a Kiosk isle) or a Click5000.



### 6.1.2.2 Service module.

You need to select a module for production. This could be PRINTS or LABS. It would be pointless to select BURNS (which burns DVD/CDs) for a printing service.

#### NOTE

It may be that not all the output options are available, depending on the selected service and/or additional licences required.

The available output modules are those offered by the selected production machine in the previous step.



### 6.1.2.3 Consumable/Output channel.

Depending on which module was selected in the previous step, different options will appear on this screen.

For example, if you chose 'PRINTS', now you will be required to select your preferred consumable size. The sizes shown here are those announced by the PRINTS service module of the production machine that was chosen in the first step.

The example shows how the '15x23HG' and 15x23 consumables appear at the same time. It is important to know which of these is available in the production machines. Otherwise, if you set an unavailable consumable, the jobs you have ordered will go into 'ERROR' status after being validated, instead of starting production.



If you chose 'LABS', you must now select the output channel from the different channels this module may offer. The output channels are normally associated with a different production machine or remote centre.

#### 6.1.2.4 Print size.

In the case of PRINTS, after choosing the consumable size, you also have to set the print format.

For example, if you chose 15x23HG as your consumable, you can choose between the following print formats: 15x23, 15x21, 15x20, (10x15)x2, (11.5x15)x2.



In the case of LABS, you have to choose an element from the list given by the previously selected channel. It may also include print formats, but depending on the type of products offered by the machine or lab for the selected channel, print sizes or other types of elements will appear (photogifts, etc...).

#### 6.1.2.5 Delivery instructions.

In order to give the customer information about the delivery options for each product, you can insert a short text message, such as 'Product printed instantly', 'Pick up your order at the photography counter', 'Receive your photos at home', etc...

By default, the text messages that were inserted at the Kiosk installation wizard will be shown, although you can edit these to be more specific for each product. These texts do not admit localisation (translation) so they will not vary even though the language selected by the end customer is changed.

You can insert one text for the end customer and another for the operator, although it is simpler to first insert the customer text and then copy it to the operator text using the 'Copy text' button.





### 6.1.3 'Prints' service administration: editing prices.

To configure the print service product prices, select the 'Prints' service on the settings screen. Next, press the 'Prices' button.



A screen will appear in which you can activate up to 5 different price ranges and set a price for each product in each range, as well as the product code for ticket printing (optional).



The recommended steps would be as follows:

- Decide how many ranges you want and set the upper limit for each one, consecutively. For example, from 1 to 9 prints for the first range, from 10 to 99 prints for the second, etc...

- b) Type in the price of each product and for each different range.
- c) Type in the product reference. This step is optional: it is only useful in those cases where you are using barcodes or a different numerical code for each product that appears on the customer ticket.

The barcode setting will have specified a set length for this figure. If the figure you type in does not match this specific length, a red square will appear around the figure.

## 6.2 Instant Photo album



Instant photo album is a software application that allows you to easily create instant MITSUBISHI photo albums.

The product created for the Instant photo album application will be ready to be sent to the **MITSUBISHI MAP** to be made, the resulting product will be a completely finished instant photo album.

Please ask your distributor for more information about the MITSUBISHI 'Instant photo album' option.



The Instant photo album application contains a wide variety of pre-defined templates for each page, with a range of decorative backgrounds that are randomly allocated to facilitate the automatic creation and customisation of each album.

## 6.2.1 ‘Instant photo album’ service: workflow

After the customer has chosen the folders with the photos, and following the application's instructions, you can create an automatic album in just a few steps. This chapter describes the different screens and what they mean.

### 6.2.1.1 Product selection

In the Instant photo album service, the product is selected automatically according to the number of images chosen by the customer.

The first screen that we see is the price list, where the price for the instant photo album according to number of pages is shown.



PocketBook

Options and prices

4 Pages	from 8 to 15 photos	4.99 €
5 Pages	from 14 to 19 photos	5.99 €
6 Pages	from 16 to 22 photos	6.99 €
7 Pages	from 20 to 26 photos	7.99 €
8 Pages	from 23 to 29 photos	8.99 €
9 Pages	from 27 to 33 photos	9.99 €
10 Pages	from 30 to 36 photos	10.99 €
11 Pages	from 34 to 40 photos	11.99 €
12 Pages	from 37 to 43 photos	12.99 €
13 Pages	from 41 to 46 photos	13.99 €
14 Pages	from 44 to 70 photos	14.99 €

Exit  Next 

KIOSK gifts

## Create an Instant photo album in 6 steps.

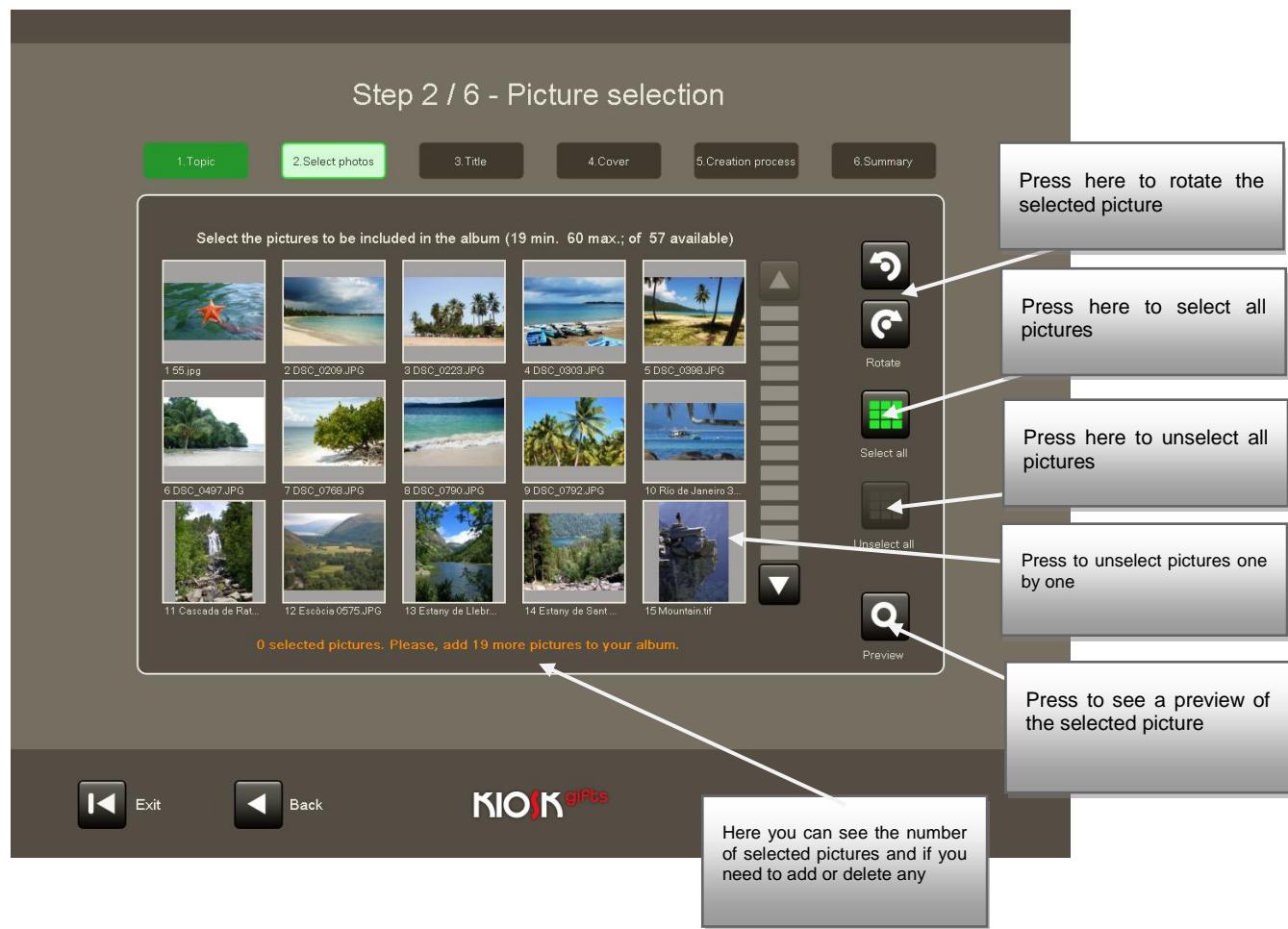
### 6.2.1.2 Step 1. Select theme

Each theme has several backgrounds that will be applied at random to each page of the selected product.

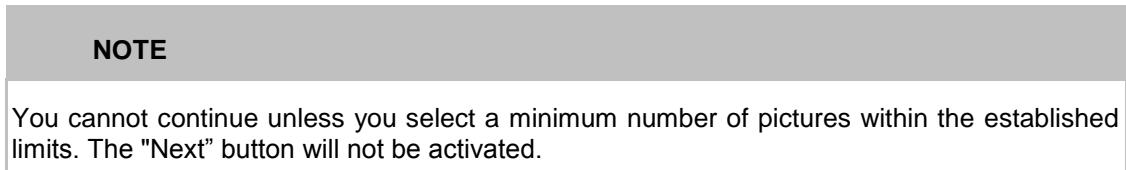


### 6.2.1.3 Step 2. Select photographs

Once you have selected the folders that you are going to process, the following screen will appear:



- ▶ A verification mark in the corner of the selected pictures will be visible.  
To preview the selected picture in full screen mode:



#### 6.2.1.4 Step 3. Write a title for the album

Once you have selected the pictures and activated the "Cover" option, the following screen will appear:



When you press a key, a panel of key options will appear on the top left of the keyboard. The options will look something like "AaÁÁàâäÄÄ".

The character will change to the next by pressing the same key again and again.

### 6.2.1.5 Step 4. Choose a cover

Once you have chosen a title, the following screen will appear:



### 6.2.1.6 Step 5. Composition

This function will create the composition of the chosen product, with all the information provided during the workflow.

## Step 5 / 6 - Composition

1. Topic    2. Select photos    3. Title    4. Cover    5. Creation process    6. Summary



Page 2 of 20

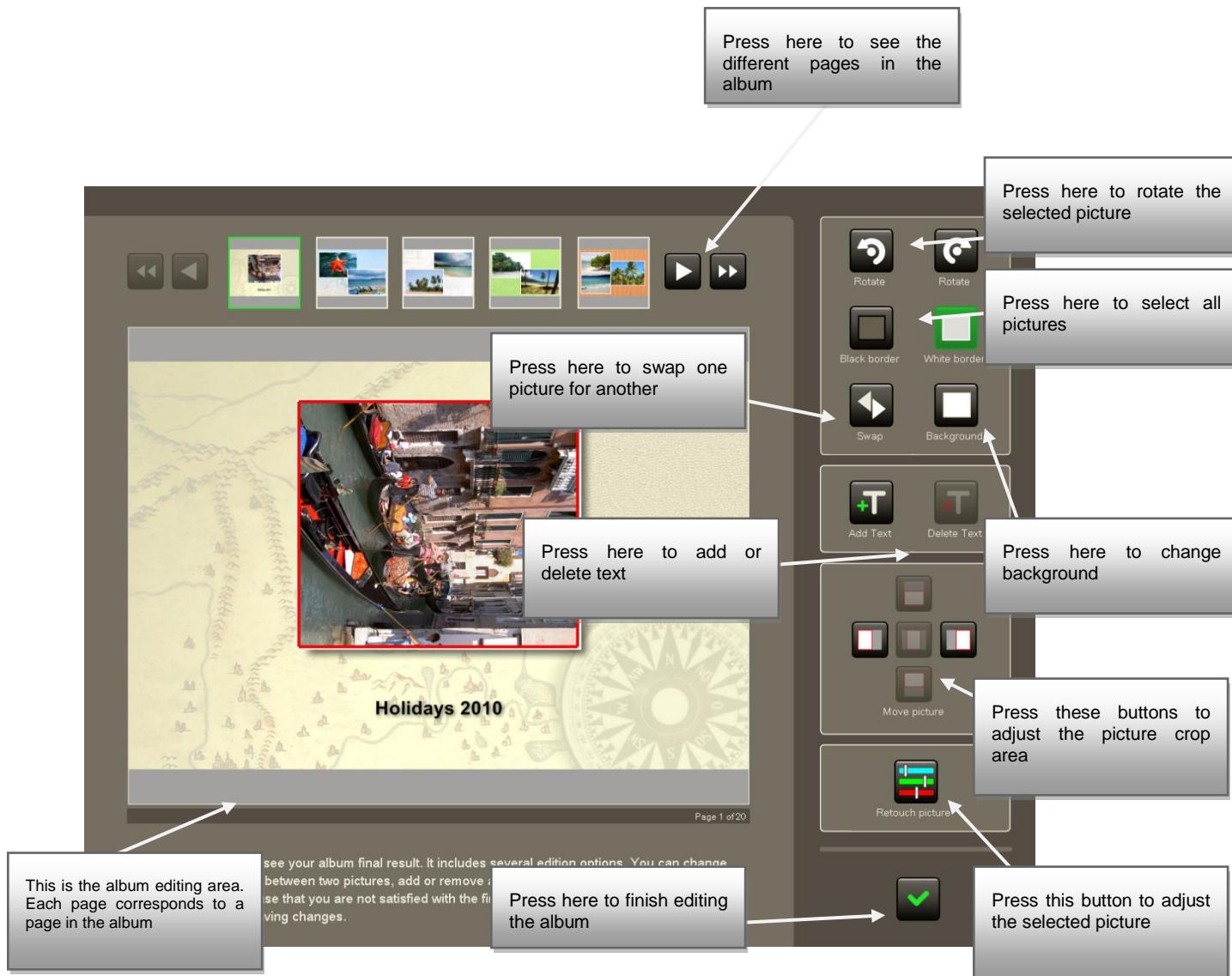
KIOSK giFTS

Preview area

Press this button when progress has completed to edit the album

### 6.2.1.7 Preview and product editing

Once you have selected the "Preview and edit" option, the following type of screen will appear:





#### 6.2.1.7.1 Save changes

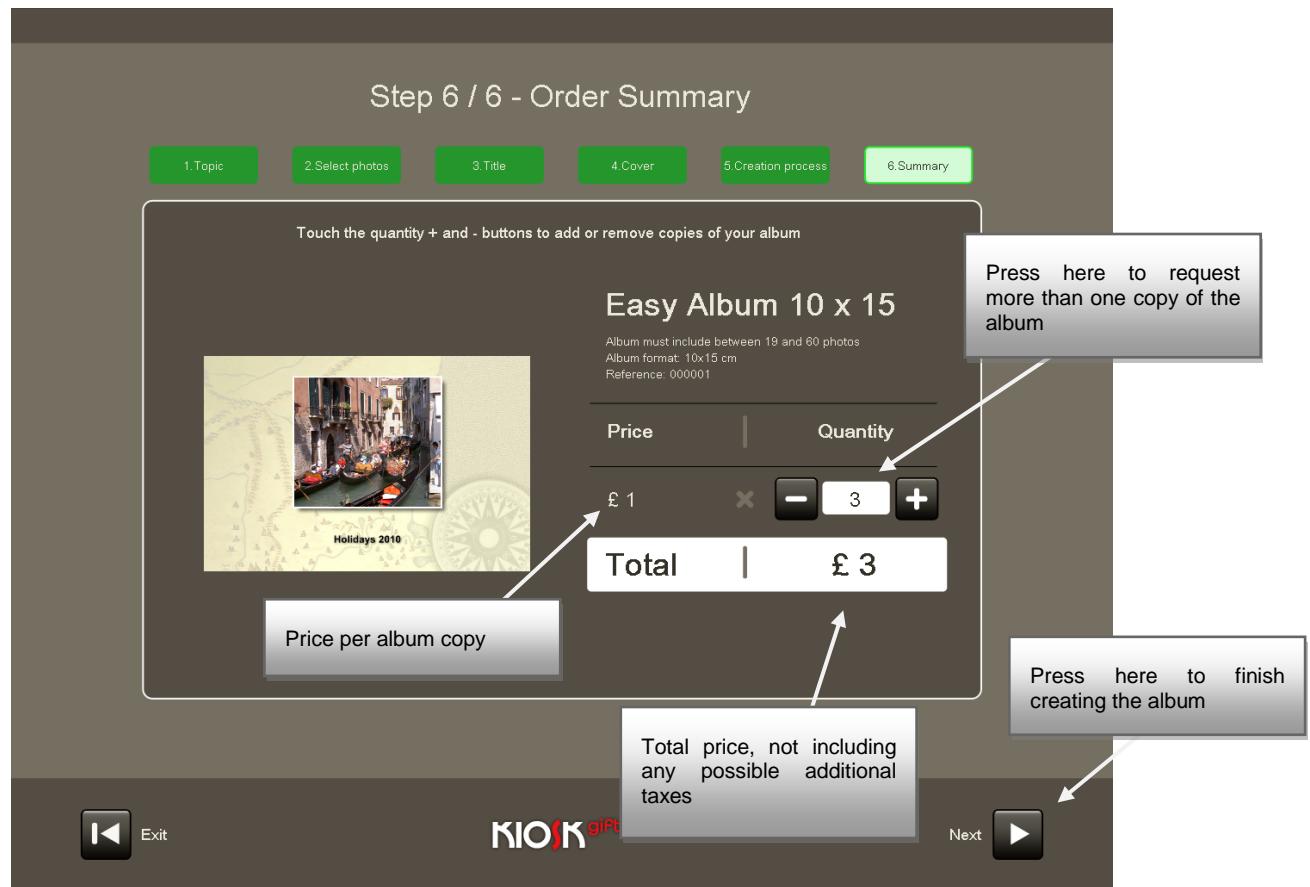
When the product has been finished, press "OK" to continue.

- The following screen will appear:



### 6.2.1.8 Step 6. Order summary

Once you have approved the product changes, the following screen will appear:



If you have installed a ticket printer, a note will be printed out with the order details.

The next screen shows the selection of additional products so that the customer can add any other services or finish the current order, as seen in the relevant chapter.

### 6.2.2 “Instant photo album” service administration

Due to the vast array of options offered by the Kioskgifts, you need to configure a set of parameters for each product in each service. For the Instant photo album service, you must specify the production machine, output module and consumable paper size for each product, among other parameters that we will see below.

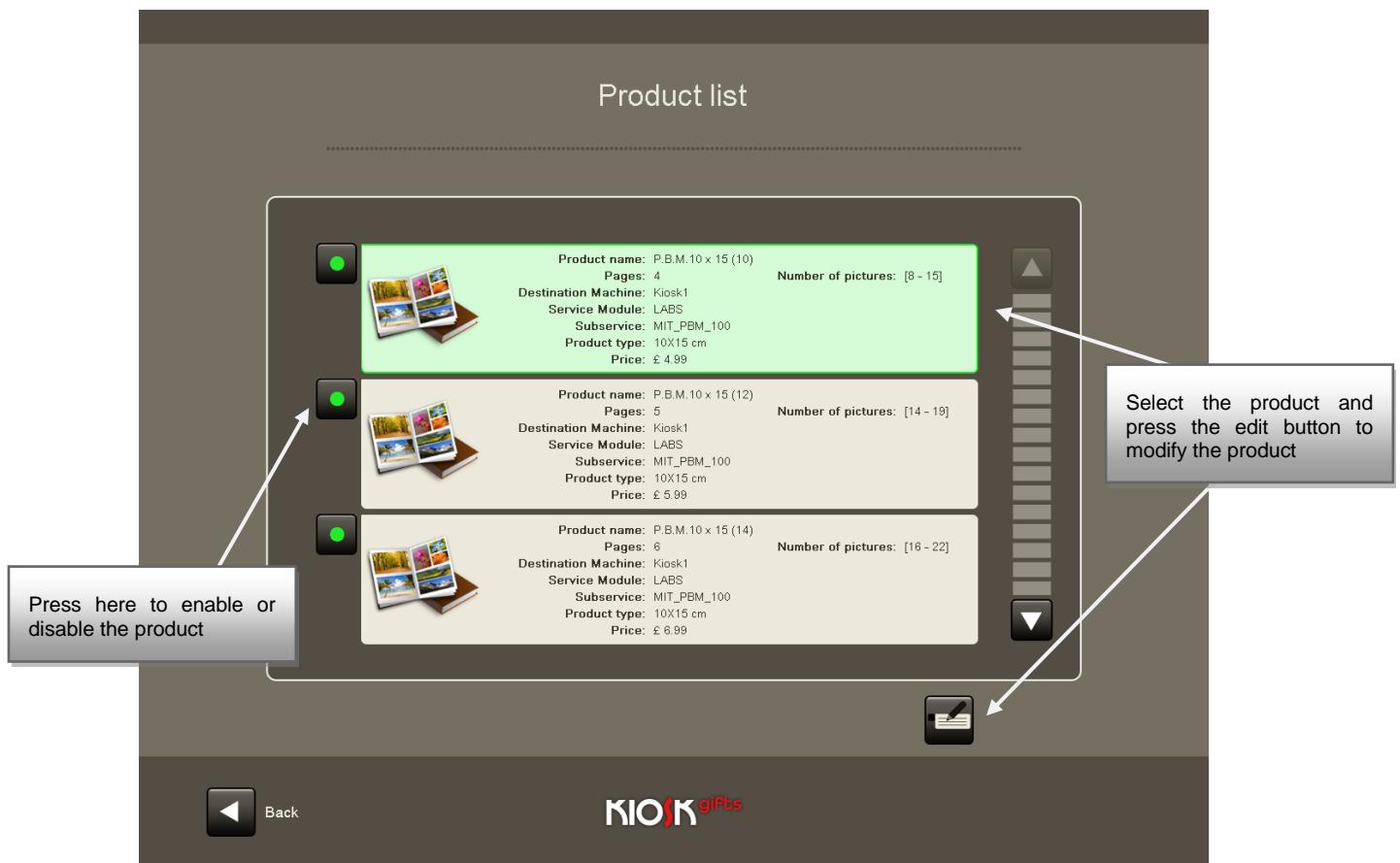
To configure the Instant photo album service products, select the ‘Instant photo album’ service on the settings screen and then press the ‘Products’ button.



The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kioskgifts user, will be shown.

### 6.2.2.1 Product selection

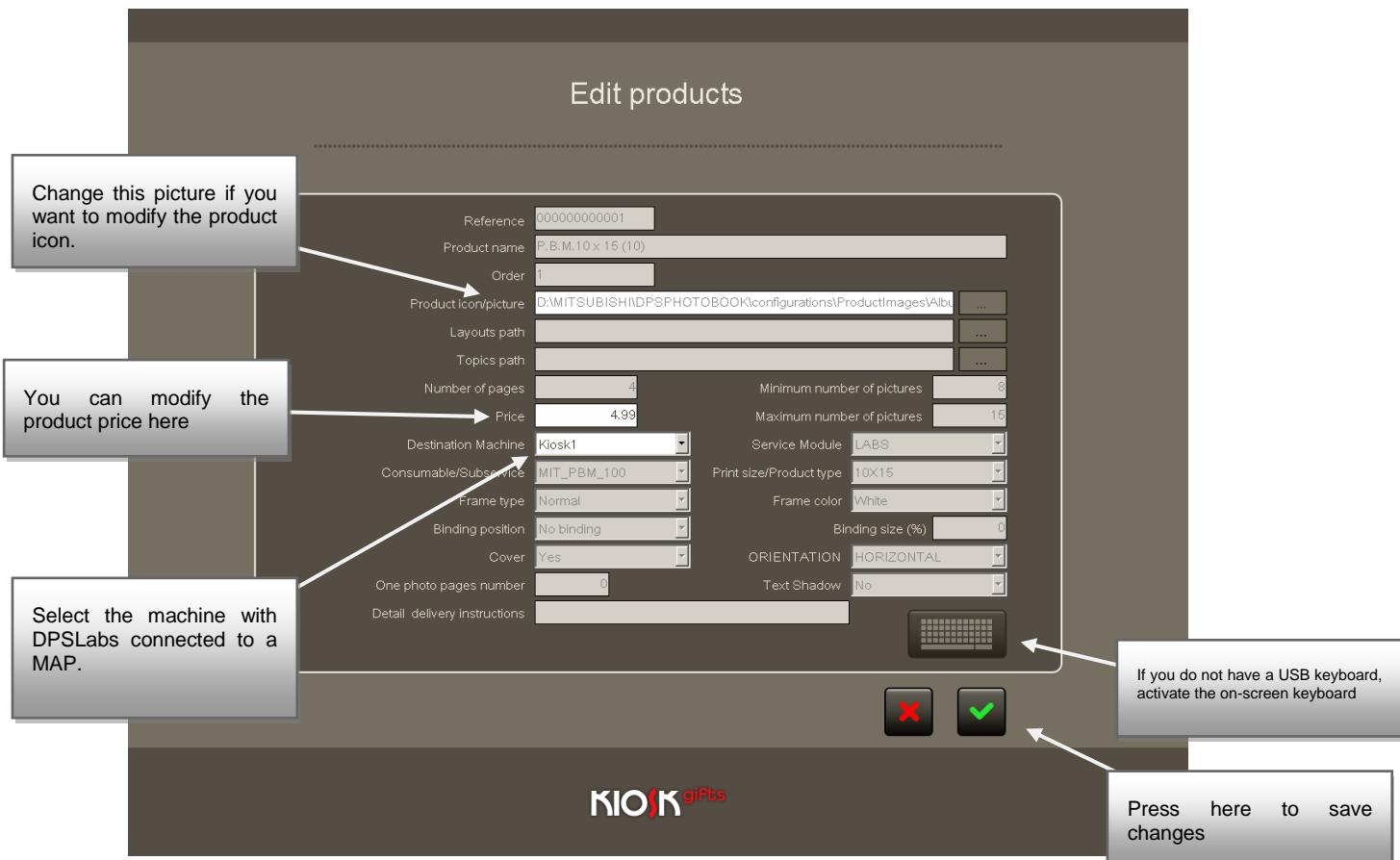
The next screen to appear shows all the existing products.



By default, the software is configured with several sample products that contain the approximate prices and the recommended quantity of pictures. The supervisor may modify the product size, price and format.

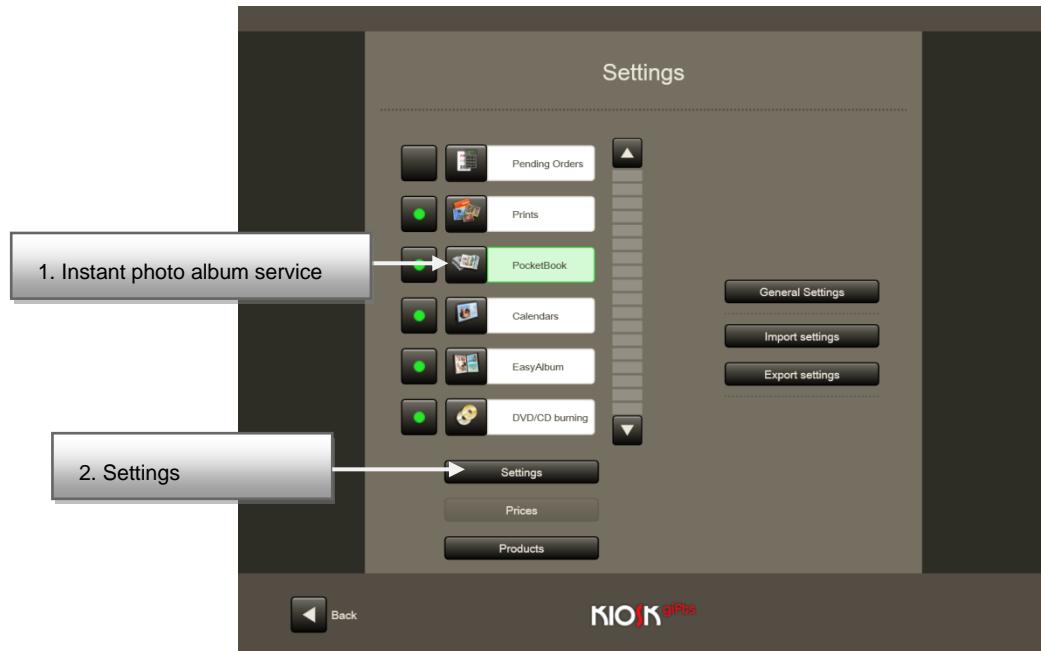
### 6.2.2.2 Product editing

Once you have chosen a theme to edit, the following screen will appear:



### 6.2.3 “Instant photo album” theme management

To access the theme management menu, first select the main Instant photo album settings menu and then click on the Settings button.

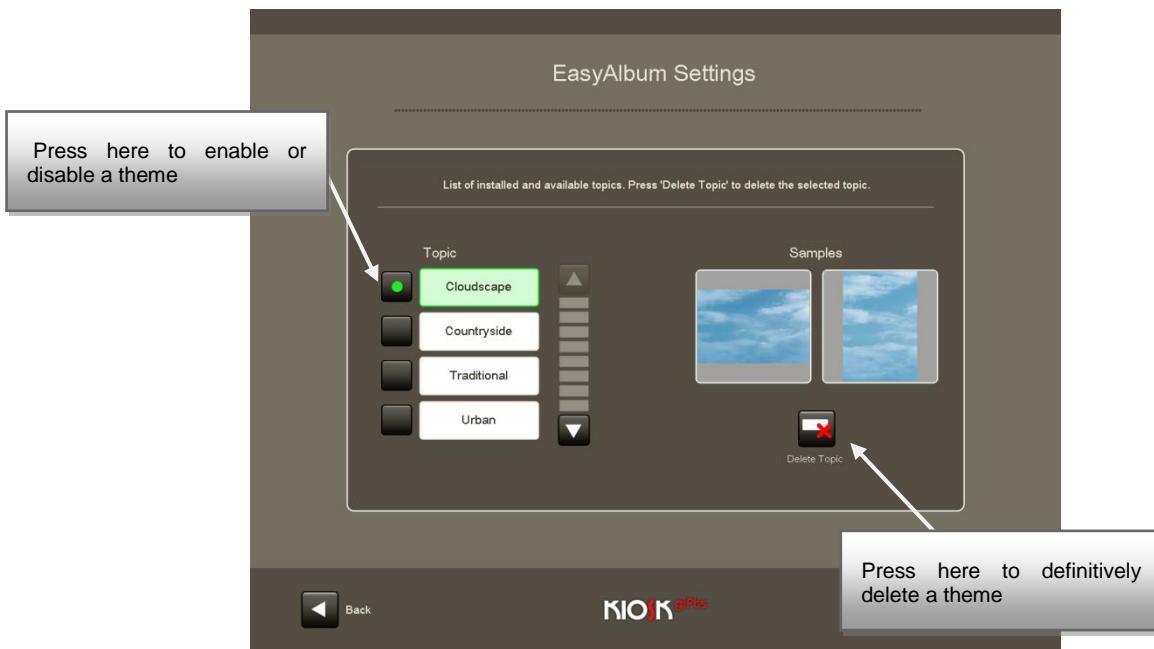


#### 6.2.3.1 Enable or disable a theme

The next screen shows a list of the installed themes, and you can enable or disable them by pressing the selection button beside the theme title. If the theme is enabled, a green mark will appear before the theme; if it is not enabled, this mark will not be visible.

#### 6.2.3.2 Deleting a theme

You also have the option of deleting a theme. To do so, you must select the theme to delete and then press the delete theme button.



## 6.3 ‘Calendars’ service



This service allows the customer to print his or her photographs in calendars of different sizes and formats.

### 6.3.1 Calendars: workflow

When you press the “Calendars” button on the main screen, this service will open.



Firstly, you need to select a year for the calendar. On the same screen you can also choose the type of calendar (“Full year” or “Monthly”).

### 6.3.1.1 Monthly calendars



This option allows you to create a 12-page calendar, one page per month.

First you must select the year. Should you wish to create a monthly calendar for a period covering 2 different years, select the start year and also specify the start month. The system will then calculate the following 12 months.

To continue the process, press "Next". Next you can choose the theme and design of your calendar from several options. Each theme also allows you to choose a design.



Press “Start calendar creation” to start the monthly calendar creation process. On the right of the screen you will see a help panel.



You have to select an image at the top of the screen to combine it with the calendar shown in the centre.

The monthly option uses twelve different photographs, one for each month. After selecting the image for the first month of the year, use the arrow buttons in part 3 of the help panel to move onto the next month, and add the next image of the customer's choice.

We recommend you follow the process in the given order, month by month, to avoid leaving any month “empty” when the operator completes the whole year calendar (you cannot use the same photograph for two different months). In any case, if a month is left without a picture, a warning message will appear on screen when you press “Next” to continue. The standard workflow then commences.

Before confirming the order, the user is asked to choose the print size and number of copies for each print size.

### 6.3.1.2 Full year calendars

You can make a calendar for a specific year, using just one page. To do so, select “Full year calendar” and specify the required year.



Press "Next" to choose the theme and design of your calendar from several options.



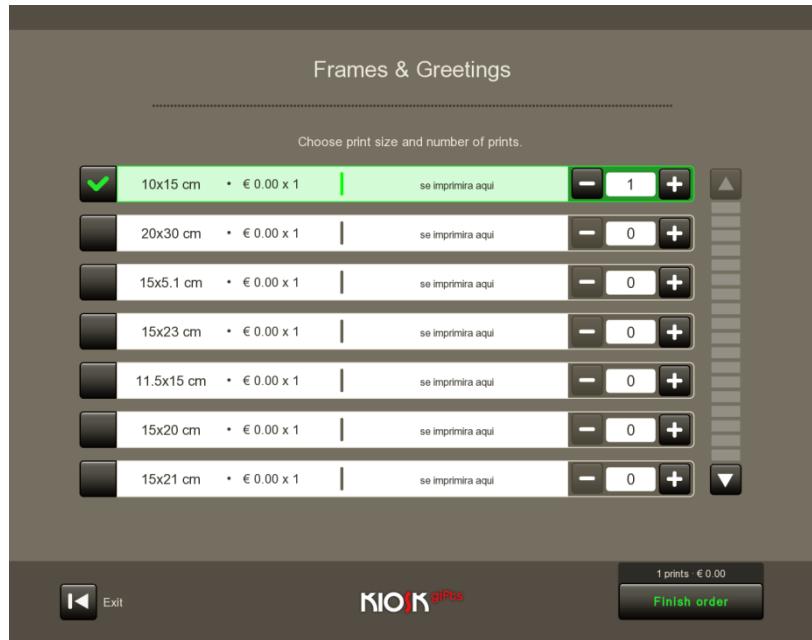
Press "Start calendar creation" to start the full year calendar creation process.

You have to select an image at the top of the screen to combine it with the calendar shown in the centre, as with the monthly calendars.



The “full year calendar” option only uses one photograph for the whole year, and it is printed out on one sheet of paper.

After selecting the picture and adjusting the position on the calendar, press “Next” to continue. Lastly, select the sizes and number of copies required. Press “Finish order” to continue.



### 6.3.2 ‘Calendars’ service administration: product creation.

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### **6.3.3 ‘Calendars’ service administration: editing prices.**

The administration of the different prices for each product in this service is the same as the ‘Prints’ service, which has already been explained in this manual.

## 6.4 EasyAlbum

EasyAlbum is a software application that allows you to easily create instant MITSUBISHI photo albums. The product generated by the EasyAlbum application is a set of pages prepared for the creation of an 'EasyAlbum' photo book.

The 'EasyAlbum' is an instant, personalised photo book, and is available in different sizes. Please ask your distributor for more information about the MITSUBISHI 'EasyAlbum' option and product references.



10X15cm, 20 pages



20x25cm, 20 pages



15x23cm, 20 pages

The EasyAlbum application contains a wide variety of pre-defined templates for each page (up to eight photos per page), with decorative backgrounds that are randomly allocated to facilitate the automatic creation and customisation of each album.

## 6.4.1 ‘EasyAlbum’ service: workflow

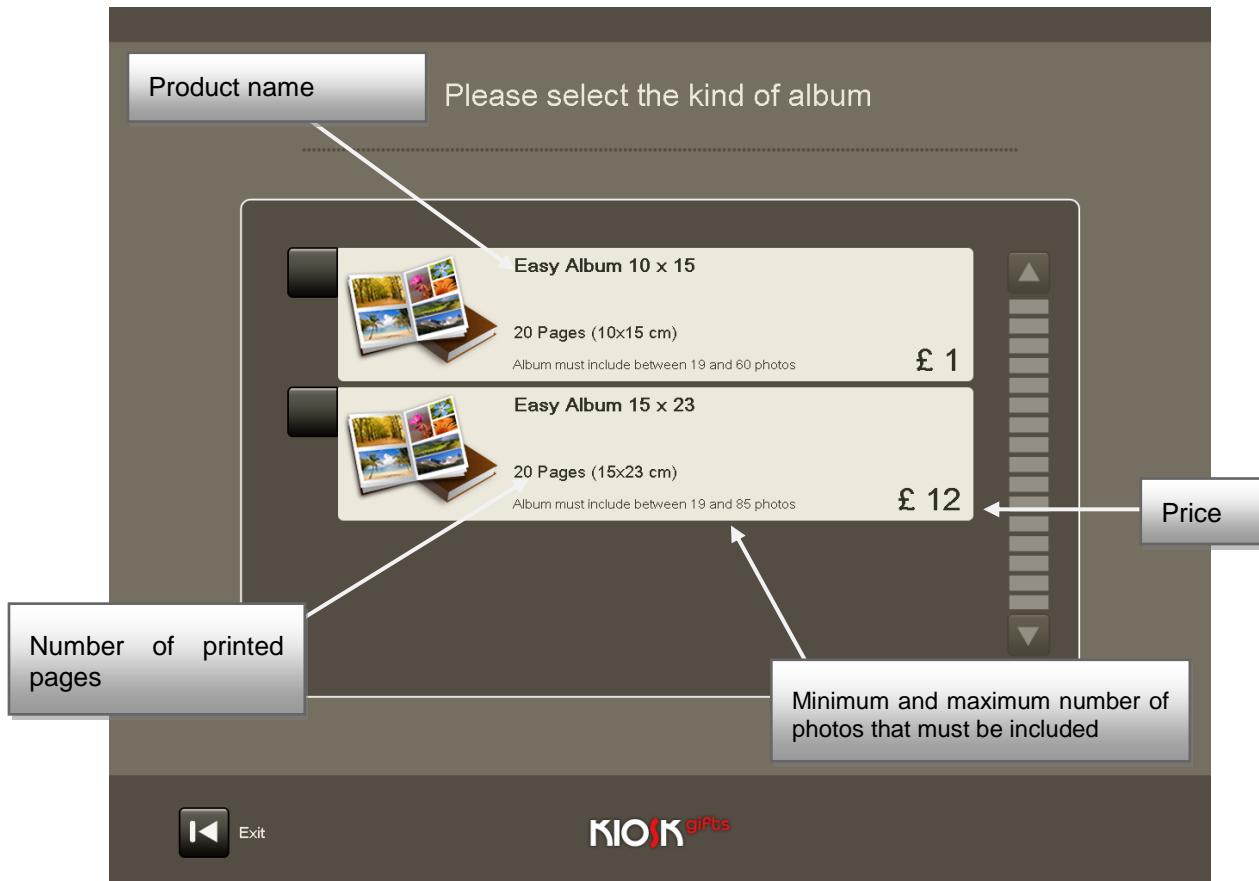
First the customer chooses the photographs to be used.

After the customer has chosen the folders with the photos, and following the application's instructions, you can create an automatic album in just a few steps.

This chapter describes the different screens and what they mean.

### 6.4.1.1 Product selection

You can choose different products for printing. These are defined by the store operator and can have different configuration parameters, such as the number of pages, format, etc. The Kioskgifts system has the most commonly used EasyAlbum products set by default, so it requires minimum configuration. For further information, read the chapter on EasyAlbum product configuration.



If more than three products are defined, a scroll bar will be shown on the right.

Use the arrows to see all the albums.

To select, touch the album you want to create (it will automatically move onto the next option).

## 6.4.2 Create an EasyAlbum in 6 steps.

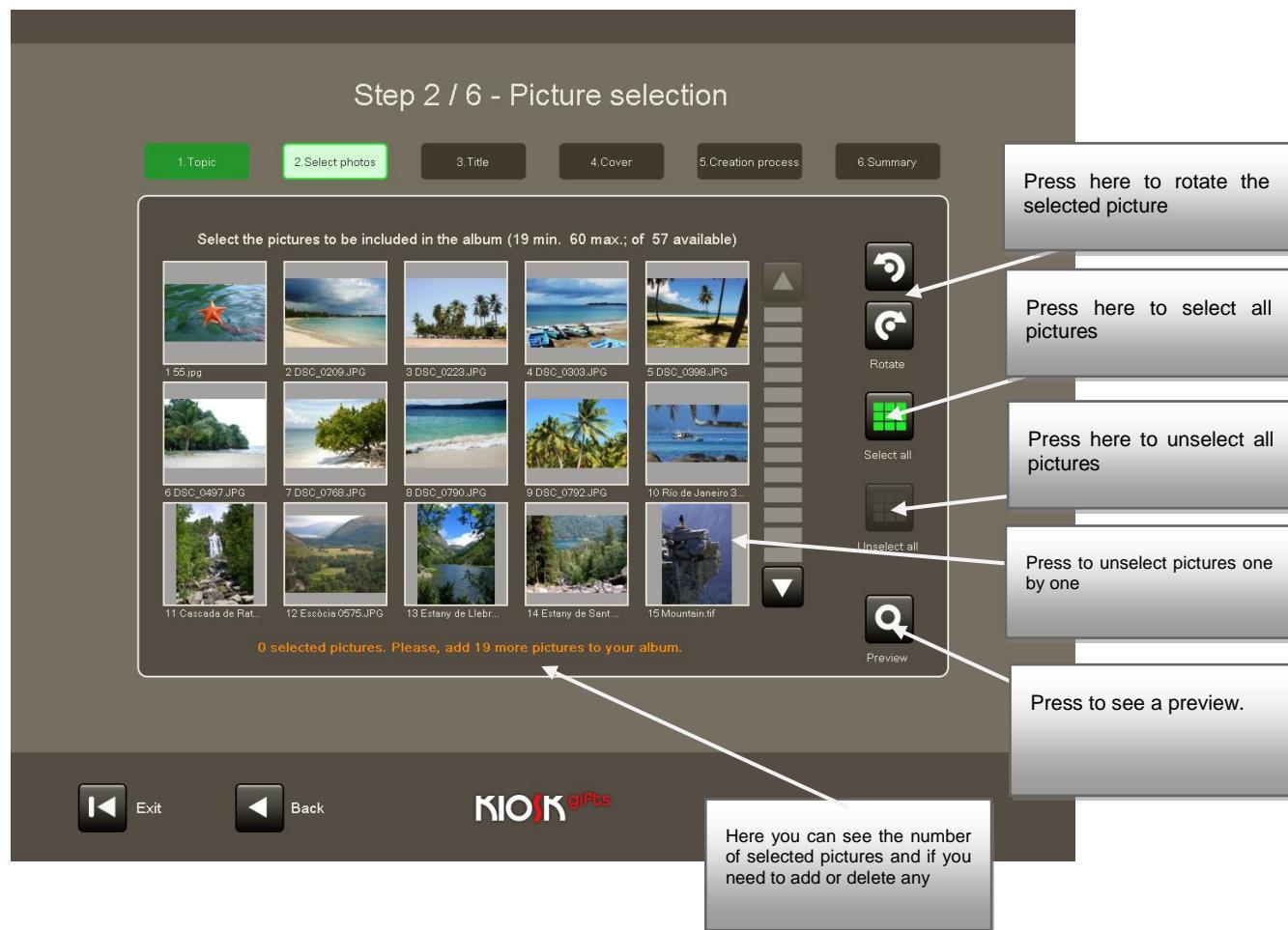
### 6.4.2.1 Step 1. Select theme

Each theme has several backgrounds that will be applied at random to each page of the selected product.



### 6.4.2.2 Step 2. Select photographs

Once you have selected the folders that you are going to process, the following screen will appear:



#### NOTE

The screen will show the number of images that have been selected.

If you still have not selected the minimum number of images required, a message will appear to tell you how many pictures you still need. A message will also appear if you select too many images.

You cannot continue unless you select a minimum number of pictures within the established limits. The "Next" button will not be activated.

- ➔ For the 'Greetings cards' or yearly calendars services, you can only select one picture.
- ➔ For 12-month calendars, you must select 12 pictures.

### 6.4.2.3 Step 3. Write a title for your book (optional, depending on the product settings)

Once you have selected the pictures and activated the "Cover" option, the following screen will appear:



Step 4.

#### 6.4.2.4 Select the cover (Optional, depending on the product settings)

##### NOTE

- ▶ Configuring a cover or front page is optional. It depends on the product settings that are available through the operator/supervisor's configuration.

To enable this option, please see chapter 3.2.13.

Once you have chosen a title, the following screen will appear:



#### 6.4.2.5 Step 5. Composition

This function will create the composition of the chosen product, with all the information provided during the workflow.



While this is being processed, you will see a preview of the album along with a progress bar. Once the process is completed, you can edit the album by pressing the preview album button to adjust the position of the pictures and other parameters.

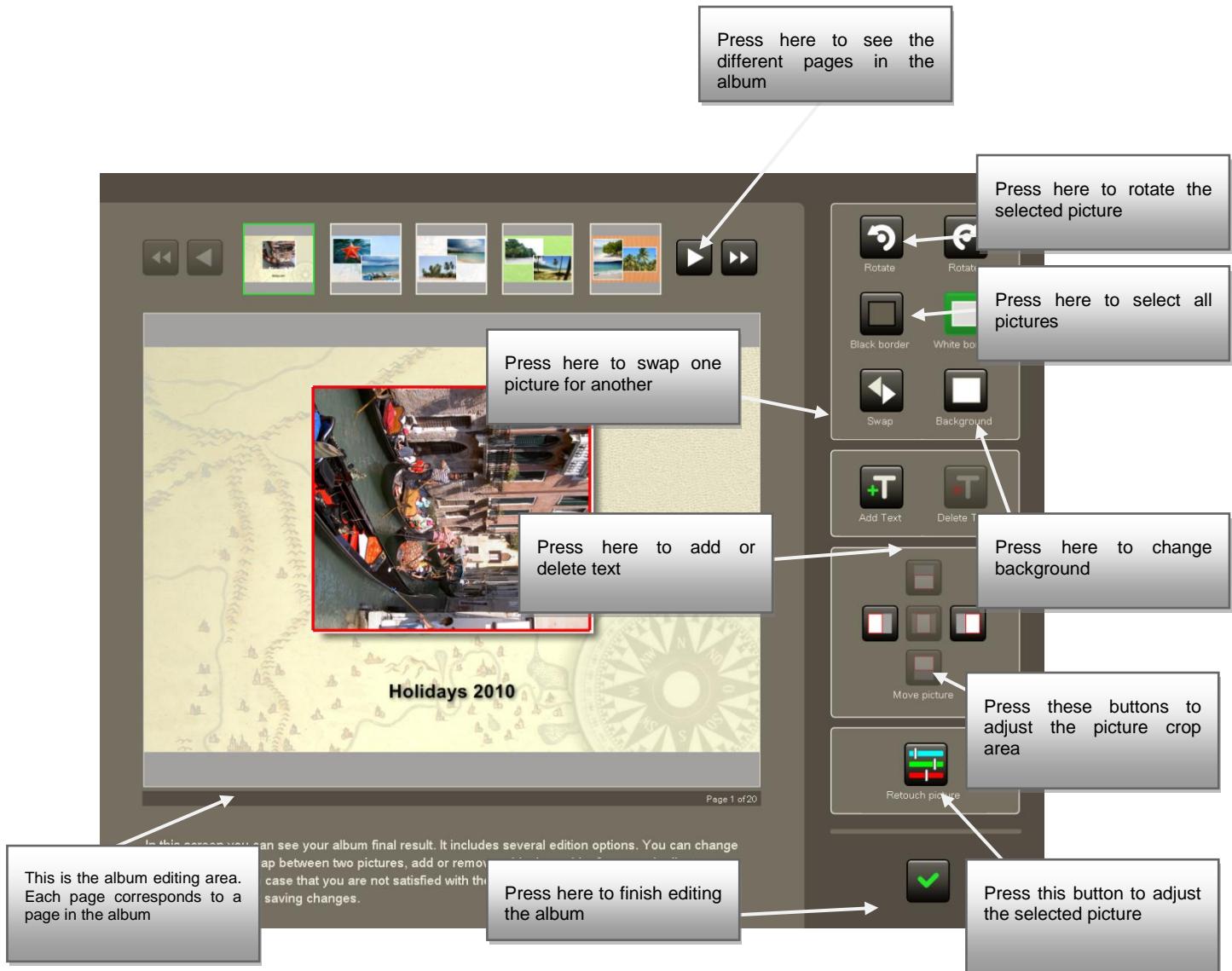
##### NOTE

- We recommend you check the product preview. You can modify the product before printing.

If you do not wish to make any modifications, press "Next" to continue.

#### 6.4.2.6 Preview and product editing

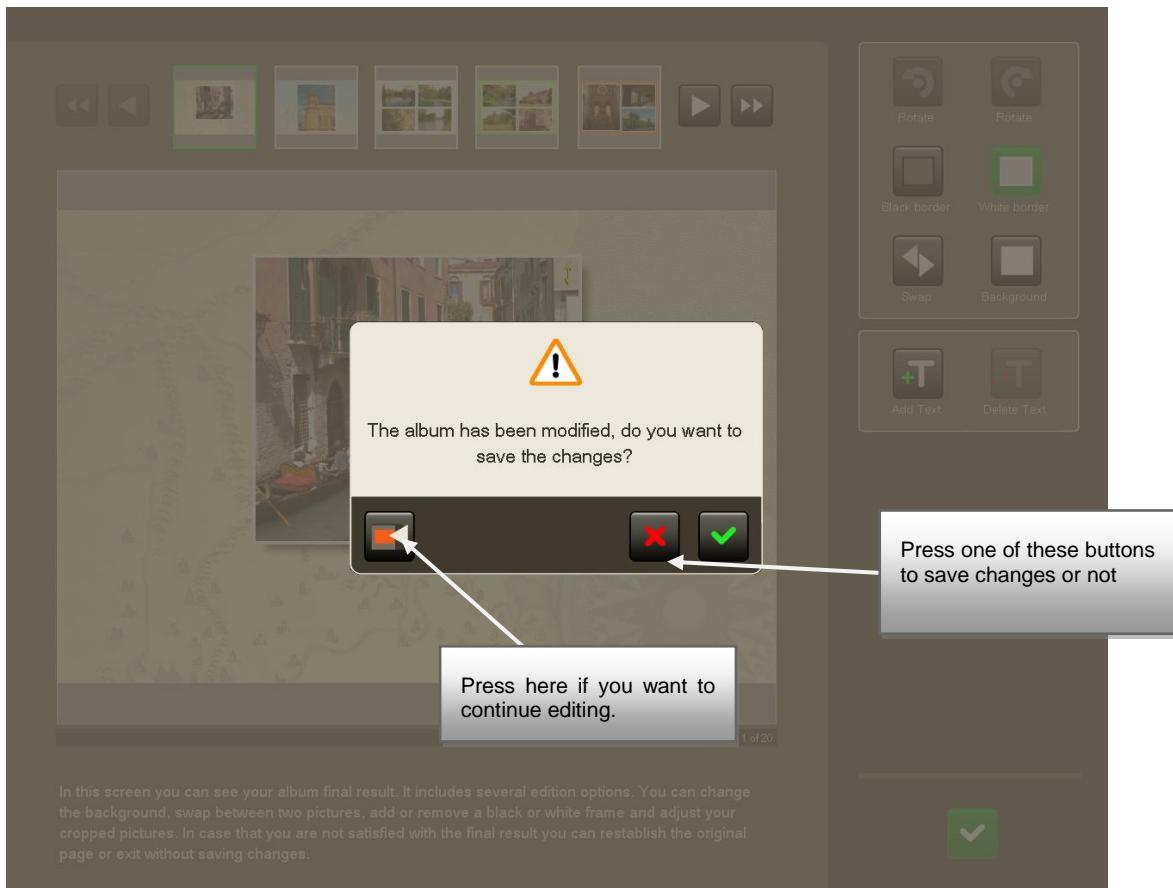
Once you have selected the "Preview and edit" option, the following type of screen will appear:



##### 6.4.2.6.1 Save changes

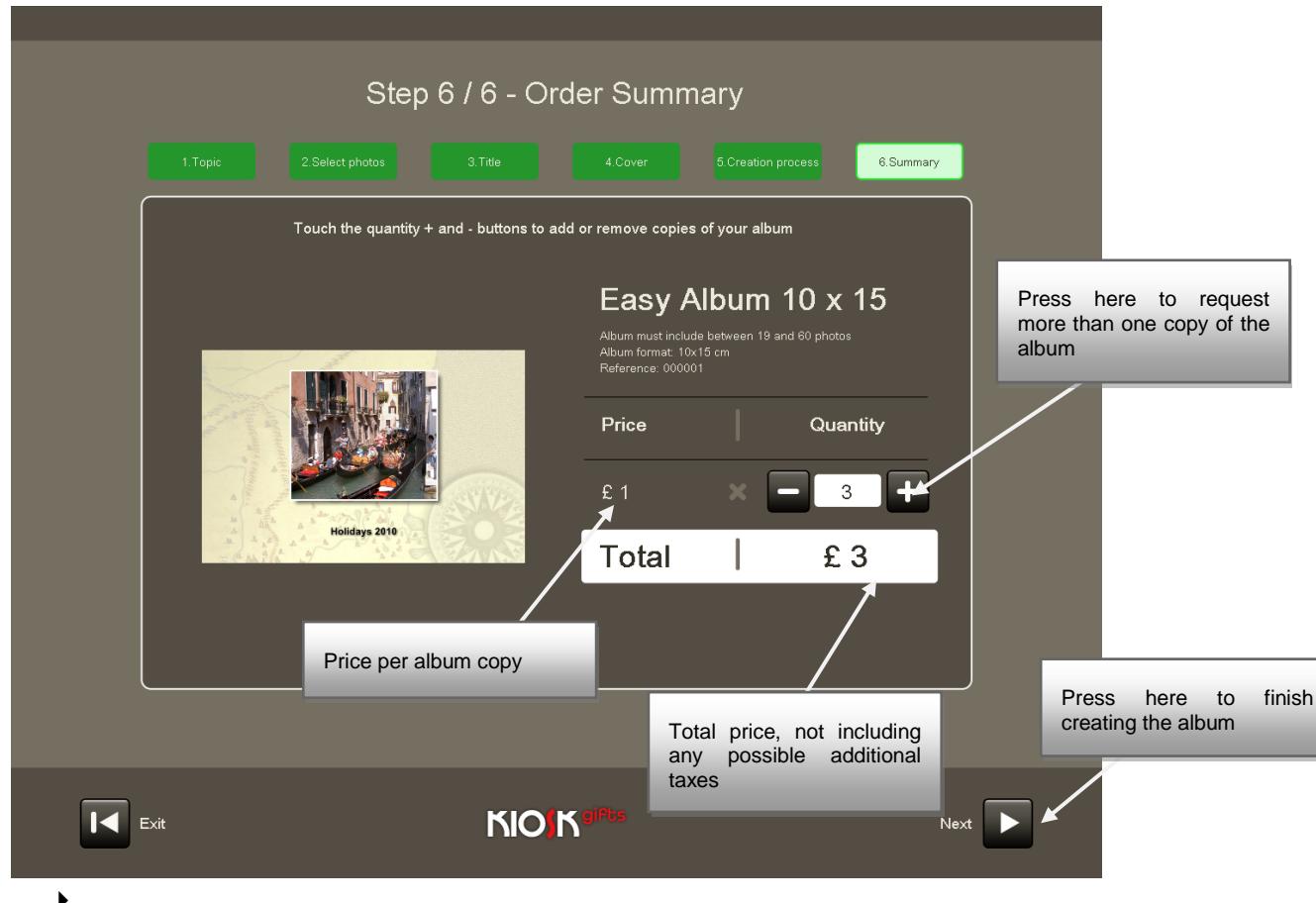
When the product has been finished, press "OK" to continue.

- The following screen will appear:



#### 6.4.2.7 Step 6. Order summary

Once you have approved the product changes, the following screen will appear:



To cancel the order:

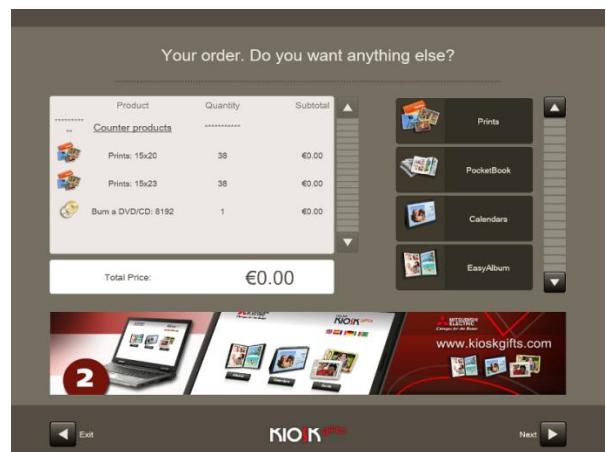
Press "Exit".

To confirm the order:

Press "Next".

If you have installed a ticket printer, a note will be printed out with the order details.

The next screen shows the selection of additional products so that the customer can add any other services or finish the current order, as seen in the relevant chapter.



### 6.4.3 ‘EasyAlbum’ service administration

Due to the vast array of options offered by the Kioskgifts, you need to configure a set of parameters for each product in each service. For the EasyAlbum service, you must specify the production machine, output module and consumable paper size for each product, among other parameters that we will see below.

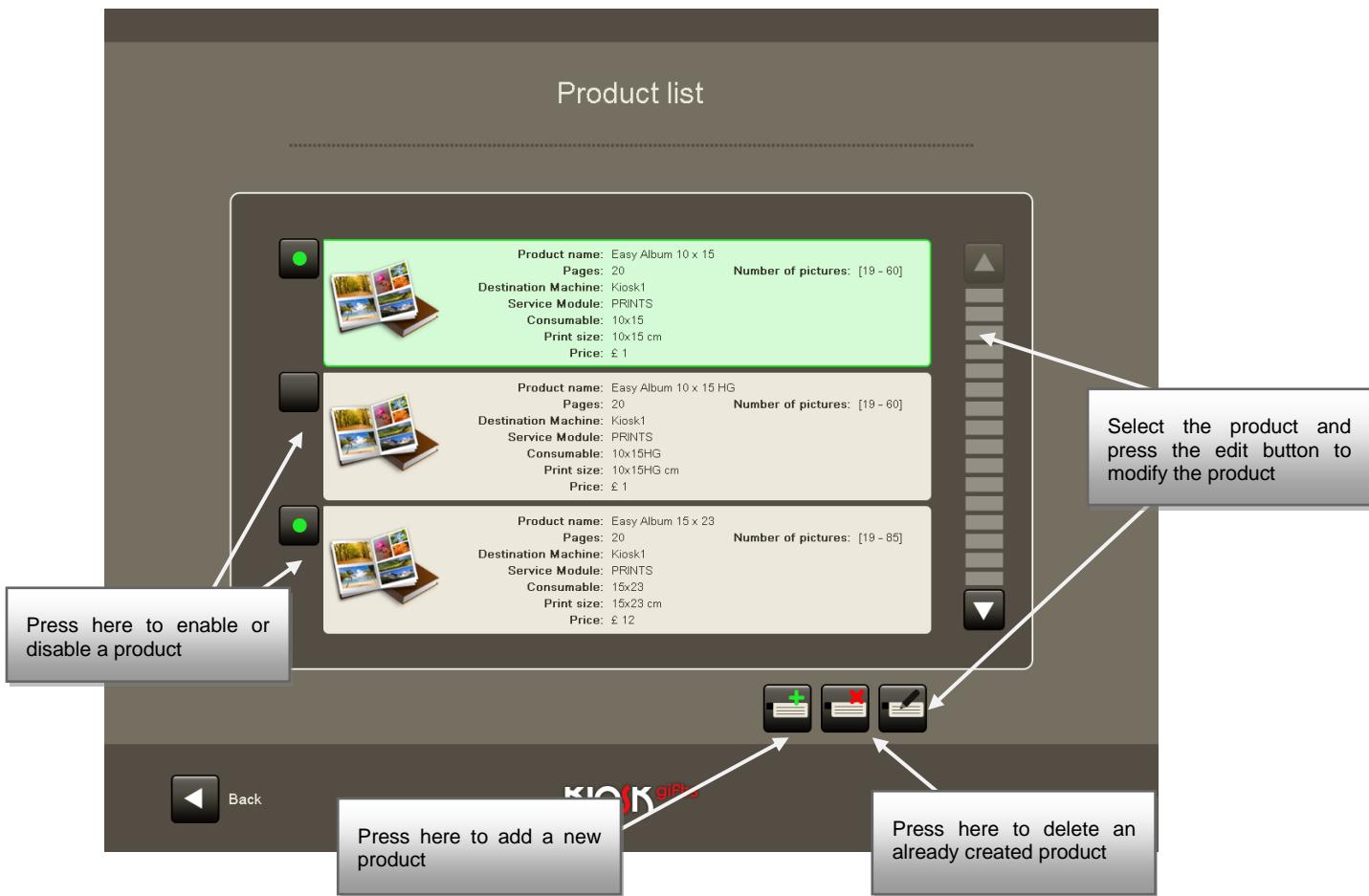
To configure the EasyAlbum service products, select the ‘EasyAlbum’ service on the settings screen and then press the ‘Products’ button.



The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kioskgifts user, will be shown.

#### 6.4.3.1 Product selection

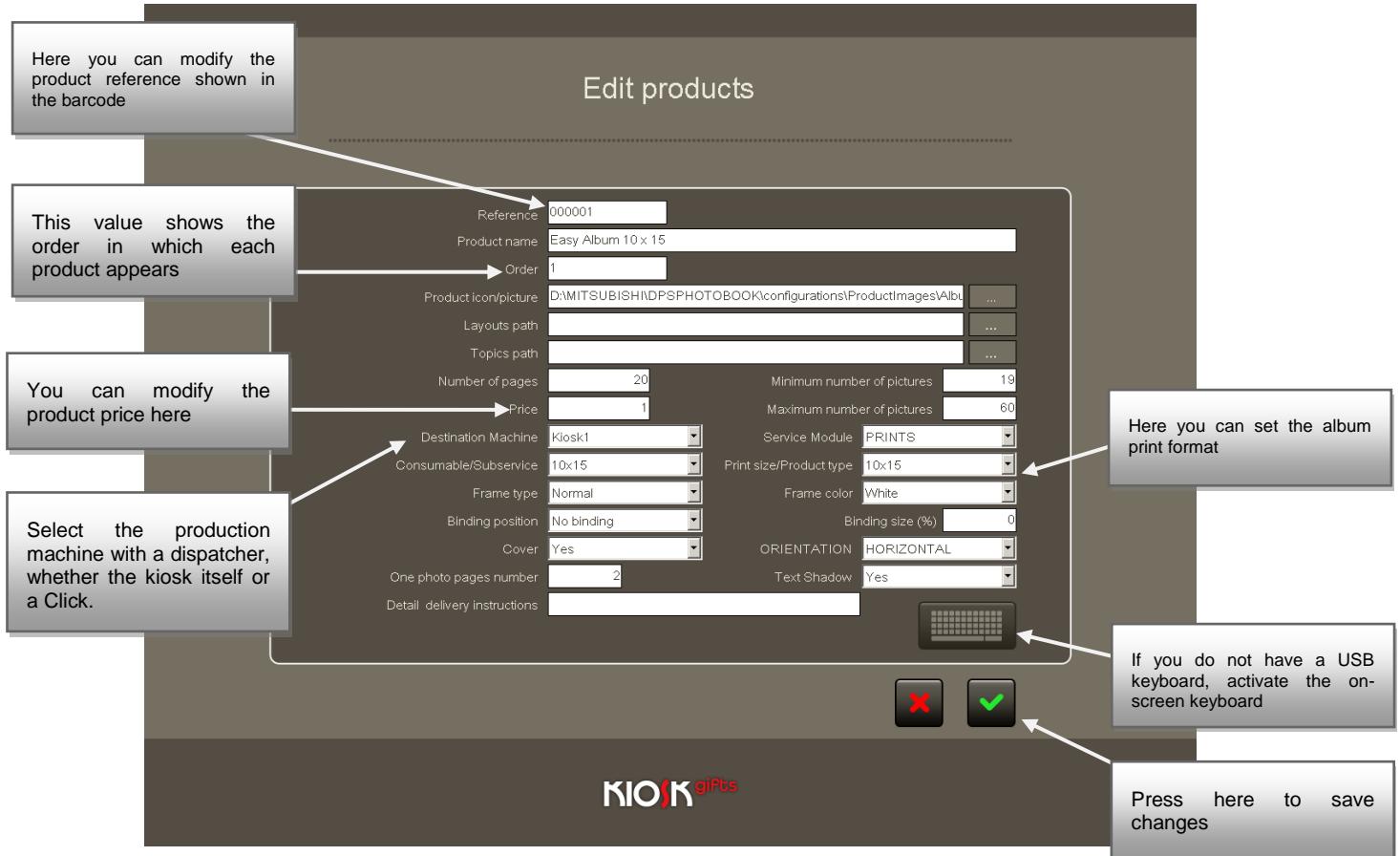
The next screen to appear shows all the existing products.



By default, the software is configured with several sample products that contain the approximate prices and the recommended quantity of pictures. The supervisor may modify the product size, price and format.

#### 6.4.3.2 Creating or editing a product

To edit an EasyAlbum product, first select a product and then press the edit products button.



## NOTE

In this screen:  
the cursor is visible to make it easier.  
If you do not have a USB keyboard connected, use the on-screen keyboard.

#### 6.4.3.2.1 Reference

This field allows you to define an internal reference that will be shown on the customer order ticket and also on the Dispatcher, while the print queues are managed from a DPSClick system.

#### 6.4.3.2.2 Product name

This is the product name that the customer will see.

We recommend you make the product name as descriptive as possible, to encourage customers to request that product.

### 6.4.3.2.3 Order

This number shows the product order in the product selection screen. If two products have the same order number, the one that has been created first will be shown first.

#### 6.4.3.2.4 Product icon/picture

This image will be shown together with the product information. You may take an image from the end product and replace the default image.

If this field is left empty, the default image will be shown.

#### 6.4.3.2.5 Design path

This is an internal parameter that is used to change the default designs. It is left empty by default.

Do not touch it without Mitsubishi's authorisation.



#### NOTE

Only Mitsubishi can modify this option.

Please contact Mitsubishi to modify the products' designs.

#### 6.4.3.2.6 Theme path

This is an internal parameter that is used to change the default themes and backgrounds. It is left empty by default.

Do not touch it without Mitsubishi's authorisation.

#### 6.4.3.2.7 Number of pages

This option enables you to indicate the number of pages you wish the selected product to have.

(Remember that one sheet contains two pages, one on each side of the sheet).

After selecting the number of pages, you must select the minimum and maximum number of pictures that the product will contain.

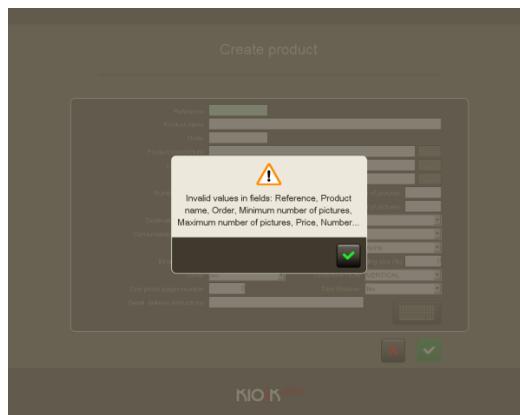
4. Minimum number of pictures: The minimum recommended number of pictures is the same as the number of pages (one picture per page).
5. Maximum number of pictures: The recommended value is  $(\text{Number\_of\_pages} - \text{Number\_pages\_with\_only\_one\_picture}) * 5$ .
6. Number of pages with only one picture: This option enables you to select the number of pages on which you wish to have only one picture. The recommended value is 20% of the total number of pages.



#### NOTE

Bear in mind that the number of pictures must be: equal to or higher than the number of pages.

If you exceed the limits, an error screen (see example) will appear to notify you of the problem.



#### 6.4.3.2.8 Price

This field is the end product price (including VAT and other concepts).

You can use decimal numbers in the product price.

This price will be shown in the same currency as that set in the Kernel.

#### 6.4.3.2.9 Product format

This option enables you to indicate your required print output format.

The formats are given in the drop-down list and the orientation of the print sheet is specified (horizontal or vertical).

#### 6.4.3.2.10 Frame type and colour

This option enables you to choose between different picture frame types, and to select the default frame colour (black or white). The picture frames always include an image shadow effect in the background.

#### 6.4.3.2.11 Binding position

You must use this parameter whenever the binding requires unprinted space to be left at the top left margin or at the top of the paper.

This value is set as "NO" by default.

#### 6.4.3.2.12 Binding size

7. This parameter specifies the percentage (%) of the paper that will be left without a printed area.
8. This is only relevant if the previous parameter has been set.

#### 6.4.3.2.13 Cover

9. This option enables you to select whether the product will have a cover or not.
10. A cover has an image and a title.



#### NOTE

Mitsubishi recommends always keeping this option activated.

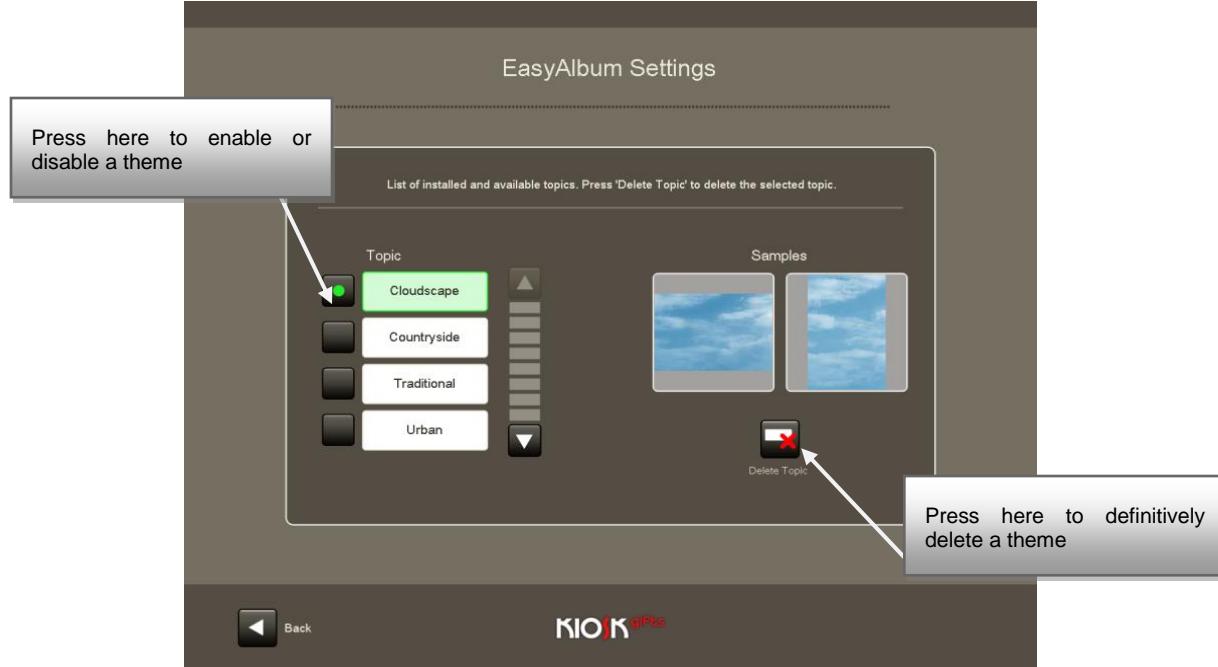
### 6.4.4 “EasyAlbum” theme management

To access the theme management menu, first select the main Easyphoto settings menu and then click on the Settings button.



#### 6.4.4.1 Enable or disable a theme

The next screen shows a list of the installed themes, and you can enable or disable them by pressing the selection button beside the theme title. If the theme is enabled, a green mark will appear before the theme; if it is not enabled, this mark will not be visible. Bear in mind that when you disable a theme, it will also be disabled in the 'Instant Photo album' service



#### 6.4.4.2 Deleting a theme

You also have the option of deleting a theme. To do so, you must select the theme to delete and then press the delete theme button. Bear in mind that when you delete a theme, it will also be deleted in the 'Instant Photo album' service.

## 6.5 DVD/CD burning



This service allows the customer to burn CDs/DVDs of his or her pictures or to make a complete copy of all his or her files.

### 6.5.1 DVD/CD burning: workflow

When you press the "DVD/CD burning" button on the main screen, this service will open.

The following screen will then appear:



- Press the “Burn all files” button if you wish to record all the existing files on the original medium.
  - ▶ The screens explained in section c) of the “Prints” service will now appear (Additional services: do you want to burn a DVD or CD?).
- Press “Select photos” if you wish to record the selected photographs.

## Select photographs

When you press “Select photographs”, the following screen will appear:



To select pictures:

1. Use the arrows to show all the pictures.
2. Press on the required picture to select.
3. Press “Yes” to copy it and “No” to reject selection.
  - Press “Exit” to leave this screen.
4. Press “Finish order” to record.
  - ▶ The screens explained in section c) of the “Prints” service will now appear (Additional services: do you want to make an index copy?).

### 6.5.2 ‘DVD/CD burning’ service administration: product creation.

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### 6.5.3 ‘DVD/CD burning’ service administration: editing prices.

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

## 6.6 Frames and greetings cards

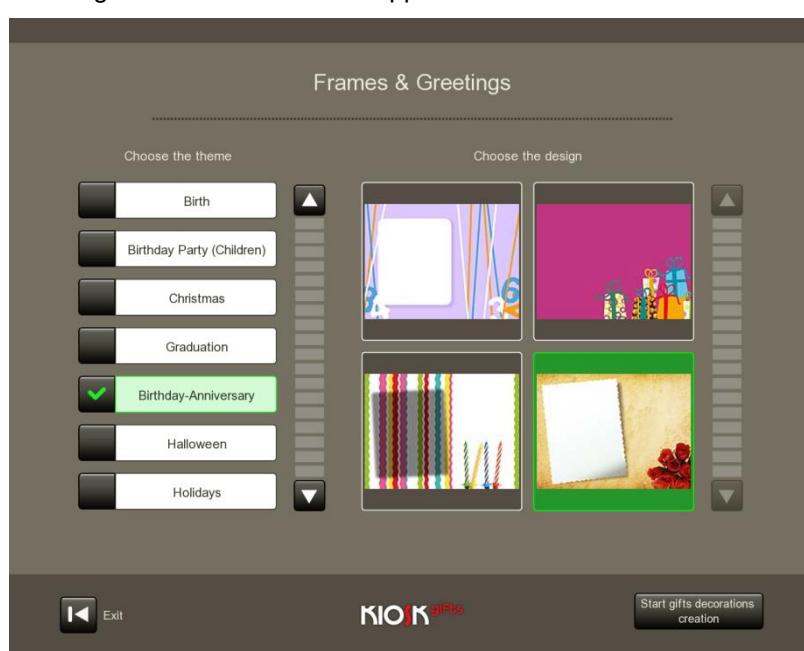


This service enables the customer to add decorative frames to his or her photos, and to create greetings cards with those photos or print them in different formats.

### 6.6.1 **Frames and greetings cards: workflow**

When you press the "Frames & Greetings" button on the main screen, this service will open.

The theme and design selection screen will appear next.

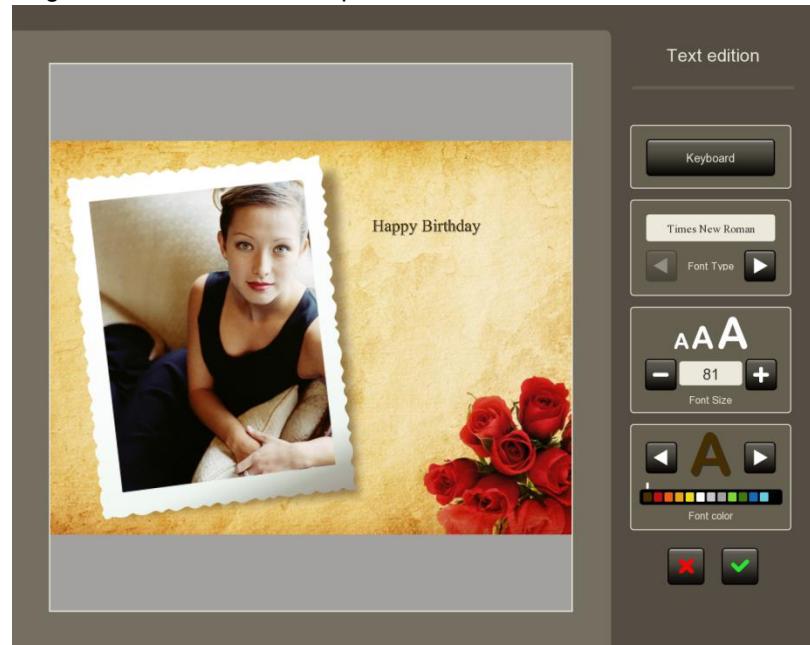


Once you have selected the design, you will need to select the photograph, then the resulting greetings card will be shown.



Certain designs may include a specific text, such as "Merry Christmas", "Happy Holidays" etc., or a default text, such as "Insert text". Regardless of the content, the text can always be modified by the end user.

Press "Edit Text" to change the font type, size and colour, and the text itself. To accept or cancel the changes made in this screen, press the relevant button.



Once you have the picture in place and you have defined the text and its characteristics, press "Next" to continue.

Before confirming the order, the user will be asked to choose the print size and number of copies for each print size, as indicated in the previous section on calendars.

### **6.6.2 ‘Frames and Greetings’ service administration: product creation.**

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### **6.6.3 ‘Frames and Greetings’ service administration: editing prices.**

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

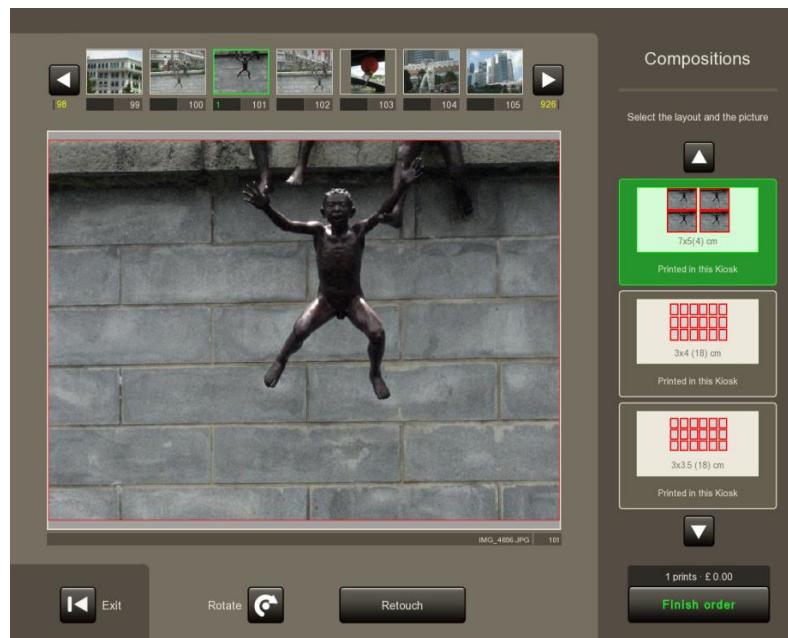
## 6.7 Compositions



This service enables the customer to print a picture in different sizes on the same page.

### 6.7.1 Compositions: workflow

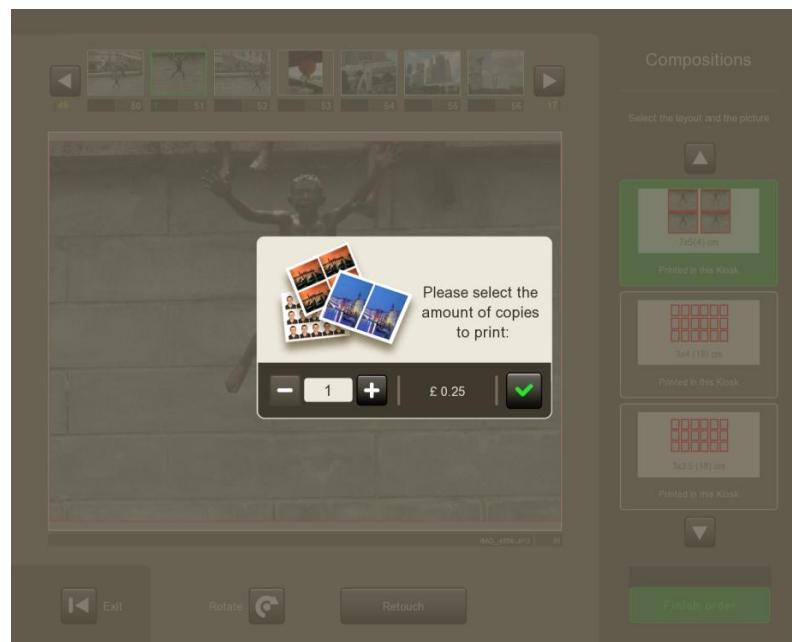
When you press the “Compositions” button on the main screen, this service will open. The ‘create a composition’ screen will appear next.



Once you have selected the composition, you will need to select the photograph, then you will be shown a preview of the resulting composition.

Once you have the picture in place and you have defined the text and its characteristics, press "Next" to continue.

Before confirming the order, the user will be asked to choose the number of copies.



### **6.7.2 'Compositions' service administration: product creation.**

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### **6.7.3 'Compositions' service administration: editing prices.**

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

## 6.8 Collage



This service enables the customer to create a composition with different pictures on a decorative background.

### 6.8.1 Collage: workflow

When you press the “Collage” button on the main screen, this service will open.

The paper size selection screen will appear next.



Once you have selected the size, you will need to select the photographs that will make up the mosaic.

To select pictures:

1. Use the arrows to show all the pictures.
2. Press on the required picture to select.
3. Press "Yes" to copy it and "No" to reject selection.

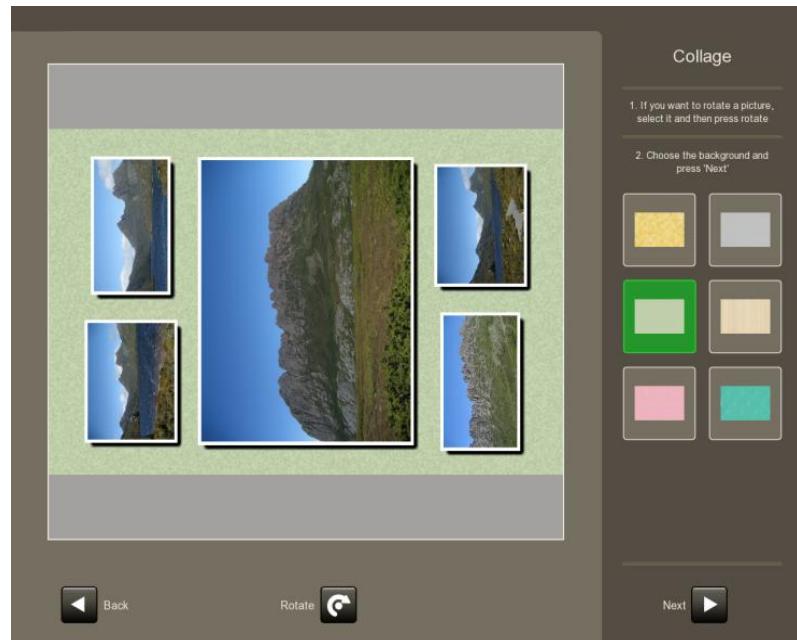


There is a minimum and maximum number of pictures that you can select. Both numbers depend on the previously selected print size.

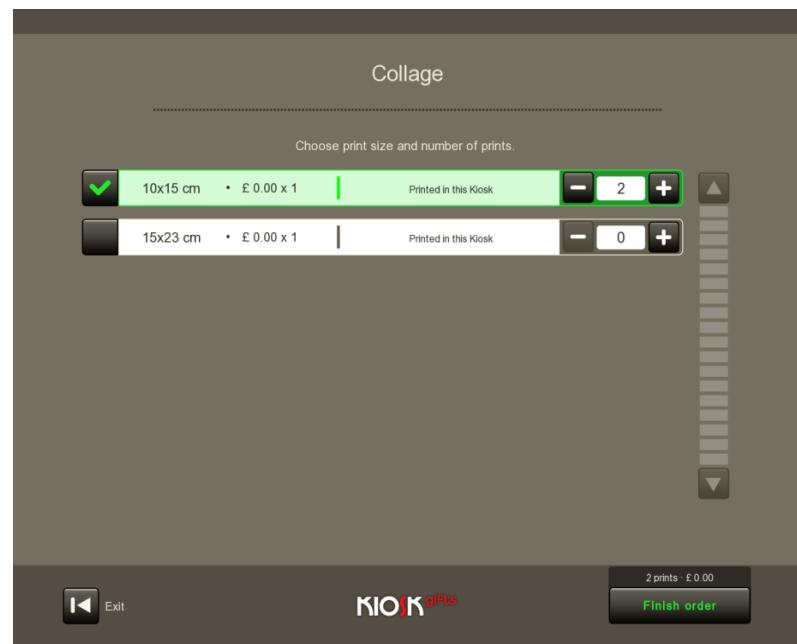
Next you will need to select the design from a number of options.



The collage photos can be rotated by selecting them and then pressing the “rotate” button. You can choose the background colour from the same screen.



Next you need to select the size and number of copies to continue the workflow.



## 6.8.2 ‘Collage’ service administration: product creation.

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

## 6.8.3 ‘Collage’ service administration: editing prices.

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

## 6.9 Mosaic poster

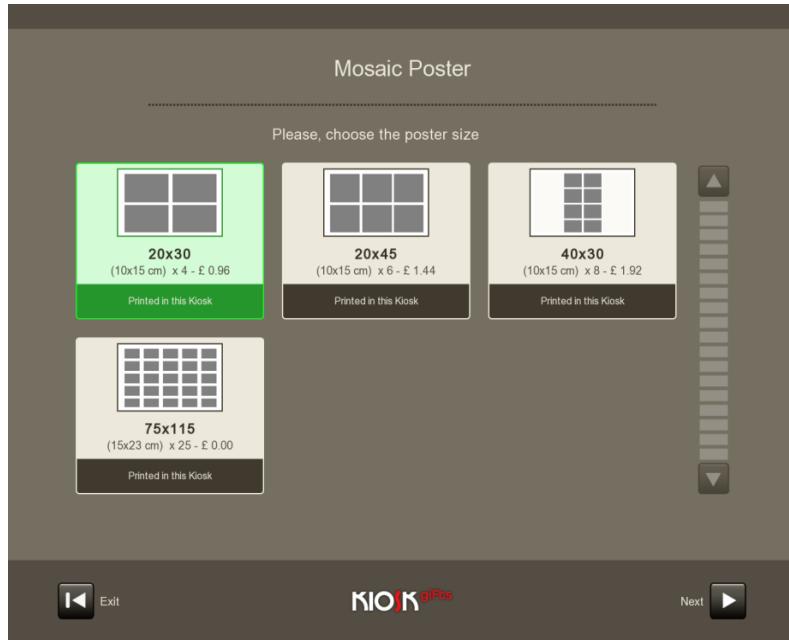


This service enables the customer to create a mosaic-type poster using parts of a picture that has been printed on different pages.

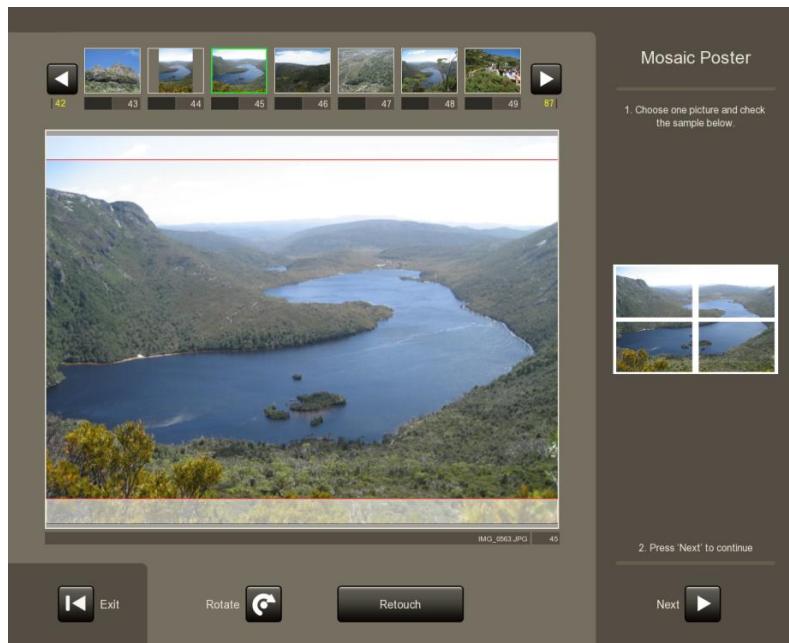
### 6.9.1 Mosaic poster: workflow

When you press the "Mosaic Poster" button on the main screen, this service will open.

The poster size selection screen will appear next. Depending on the set paper sizes, different mosaic sizes will appear.



Once you have selected the size, you will need to select the photograph and then the mosaic poster will be shown.



Once you have the picture in place and are happy with the result, press "Next" to finish the order.

### 6.9.2 'Mosaic Poster' service administration: product creation.

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### **6.9.3 'Mosaic Poster' service administration: editing prices.**

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

## 6.10 ‘Kioskgifts online’ service



This service enables the customer to make their orders online at <http://www.kioskgifts.com>. This website allows you to create calendars, greetings cards and albums from the comfort of your own home using an online application. The customer will obtain the order in electronic format, which he or she must take to the store in a compatible medium (USB drive, memory card, etc...), to be printed.

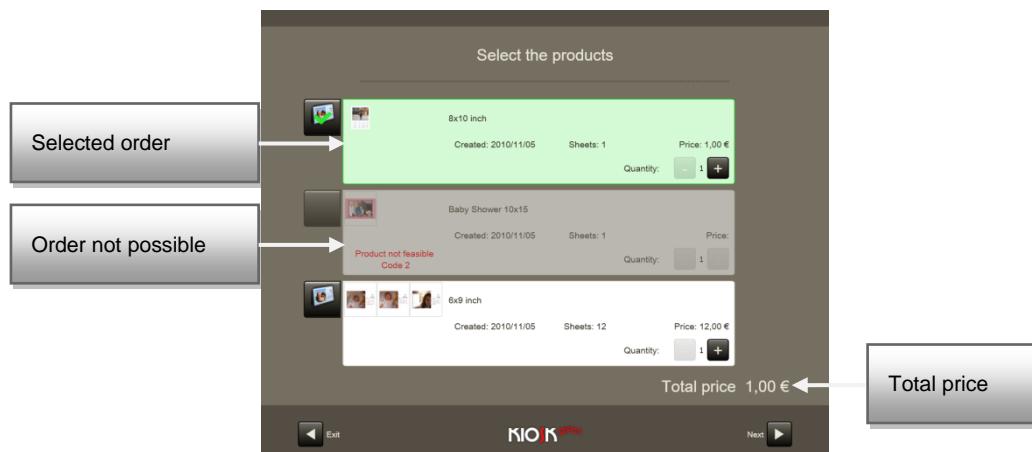
### NOTE

The services published on the Kioskgifts website do not necessarily have to be available at the Kiosk in the store chosen by the customer to complete the order. Wherever possible, the store must inform its usual customers before they prepare their orders from home.

### 6.10.1 ‘Kioskgifts online’ service: workflow

Once you have selected the device onto which the online orders have been saved, you move on to the following steps:

- A list is shown of all the orders contained on the device. The customer can select those he or she wishes to complete, and at all times the total price of the selected orders will be visible. If an order cannot be completed, it will not be able to be selected (for further information, see □.)

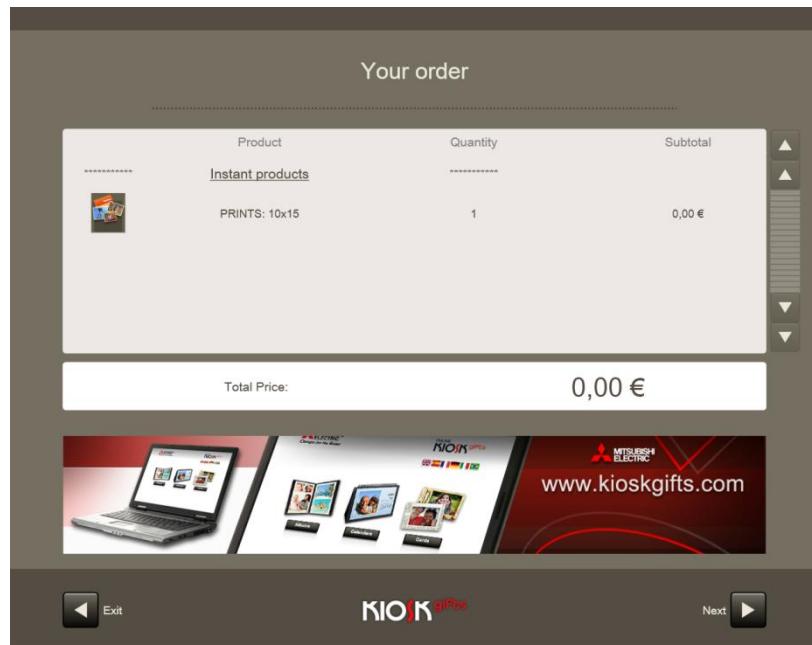


b) The system will read the order information and create the necessary files for



production. Depending on the amount of orders selected and the number of pictures in each order, this operation may take a few seconds or several minutes.

b) The service concludes and an order summary is shown. Unlike other services, you cannot add new products.

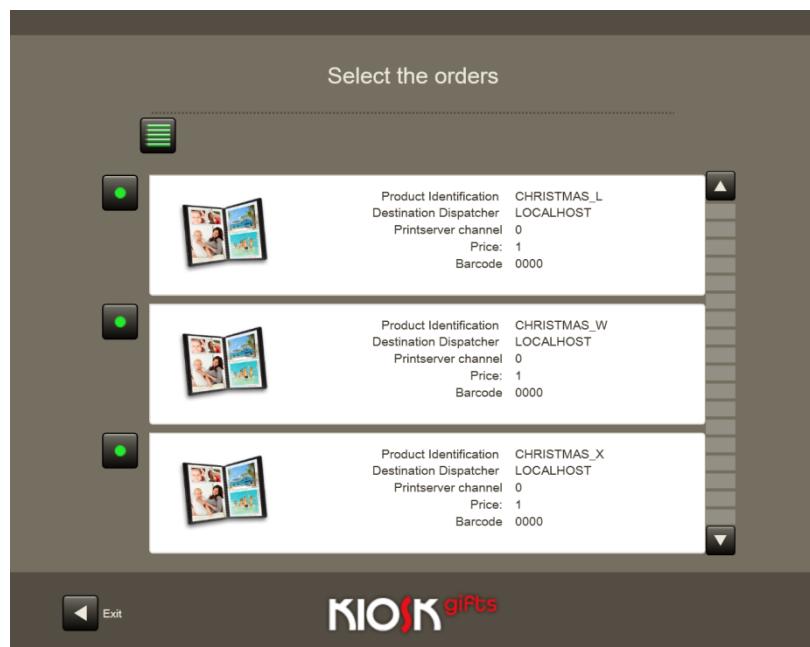


## 6.10.2 'Kioskgifts online' service administration: product creation and price editing.

To configure the Kioskgifts service products, select the 'Kioskgifts online' service on the settings screen. Next, press the 'Products' button.



The list of current products will appear. On the left of each product, marked with a green dot, those that are and



consequently available to the Kioskgifts user, will be shown.

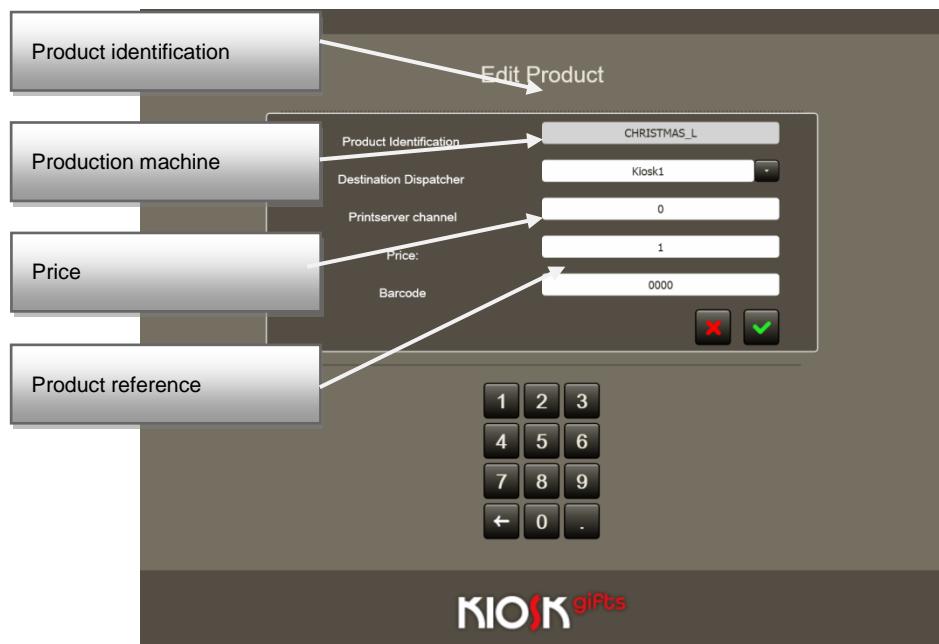




The following information is shown for each product on the list:

- Product ID, including:
  - type of product
  - print format.
- Product price.
- Product reference.

If you press on any of the listed products, the product edit screen will appear.



The following values can be modified in this screen:

- Production machine to which the product will be sent.

According to the system settings, more than one option may appear. These could be the Kioskgifts itself (in stand-alone mode), or another Kioskgifts machine (as is the case in a Kiosk isle) or a Click5000.  
If you change the production machine for a product, you will be asked if you wish to apply the same change to all products.
- Product price.
- Product reference. This value is optional: it is only useful in those cases where you are using barcodes or a different numerical code for each product that appears on the customer ticket.

### 6.10.3 Order not possible in the 'Kioskgifts online' service: error codes.

There are several reasons why an ONLINE Kioskgifts order may not be possible to complete. When this occurs in the order itself, an error code will specify the problem. This code is not designed for the end customer, but for the operator to understand what the problem is.



Error code	Description	Solution
1	Invalid product setting	The product on the website is new and your software has not been updated
2	Unknown product ID	The product on the website is new and your software has not been updated
3	Product disabled	Enable the product from the product settings
4	Unknown product type	The type of product sent from the website is new and your software has not been updated
5	Invalid production machine	Correctly configure the product from the product settings
6	Service module not started	Check that the service (PRINTS/LABS) associated with the product has been started
7	Consumable does not exist	Check that the consumable associated with the product is not excluded in the format filter
8	Incorrect group	The product setting on the website is new and your software has not been updated
9	Incorrect number of pages	The order is damaged and cannot be processed
10	Incorrect data format	The order is damaged and cannot be processed
11	Invalid customer order (there is no order information)	The order is damaged and cannot be processed
12	Invalid customer order (there are no pictures in the order)	The order is damaged and cannot be processed
13	Invalid customer order (there are no miniatures in the order)	The order is damaged and cannot be processed

## 6.11 ‘Pending orders’ service

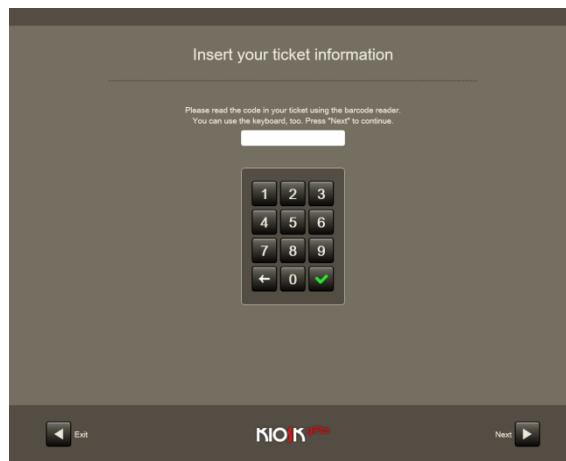


This service enables the customer to process the orders prepared in any of the terminals that form part of a kiosk isle.

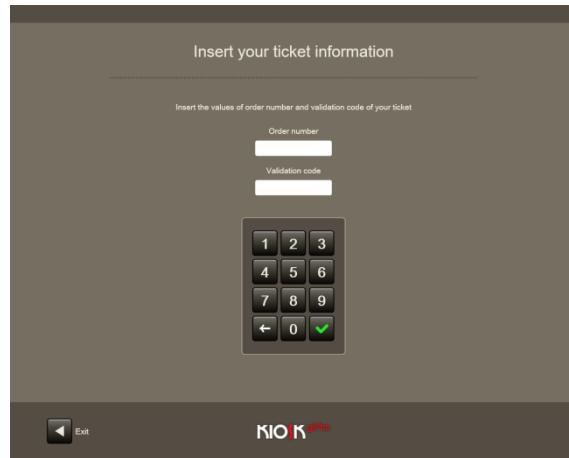
### 6.11.1 ‘Pending orders’ service: workflow

After selecting the pending orders service, the user will be asked to give the relevant order information, depending on how this service is configured, different screens will then appear:

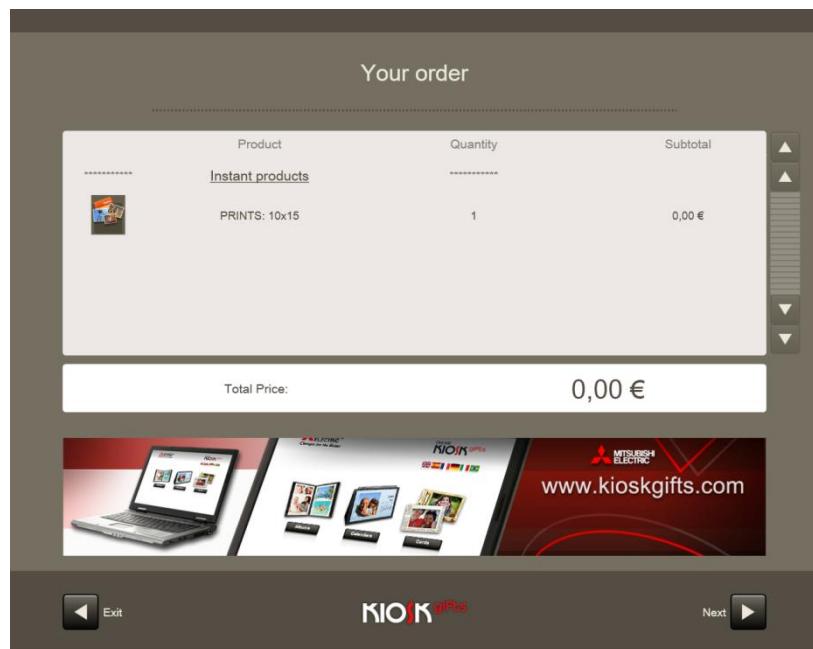
- If the pending orders service is configured in automatic mode (recommended if you have a barcode scanner) the following screen will appear. The customer must place the ticket under the barcode scanner to be read.



a.2) If the pending orders service is configured in manual mode, the user must type in the order number and validation code shown on the ticket.



b) The service will conclude and an order summary shown. Unlike other services, no new products can be added.

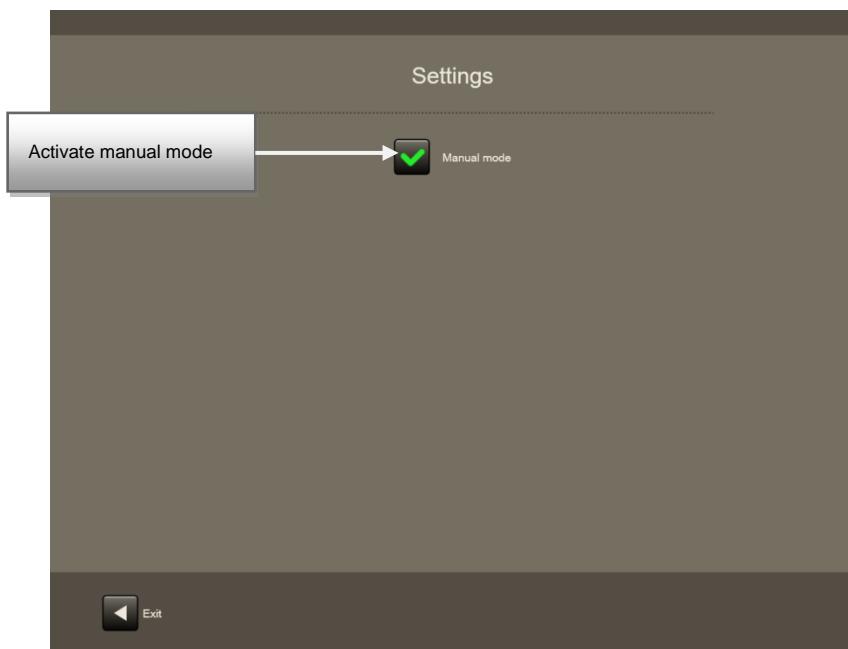


### 6.11.2 'Pending orders' service administration: general settings.

Depending on whether you have a barcode scanner or not, you can change the way in which order information is inserted. To configure the service mode, select the 'Pending orders' service on the settings screen. Next, press the 'Settings' button.



A screen will appear that enables you to set the machine to manual mode. This mode is only recommended if you do not have a barcode scanner or if the existing one does not work properly.





# **APPENDIX**

## **Dispatcher**

**Revision 2.0**



**ENGLISH**  
Rev. 2.0

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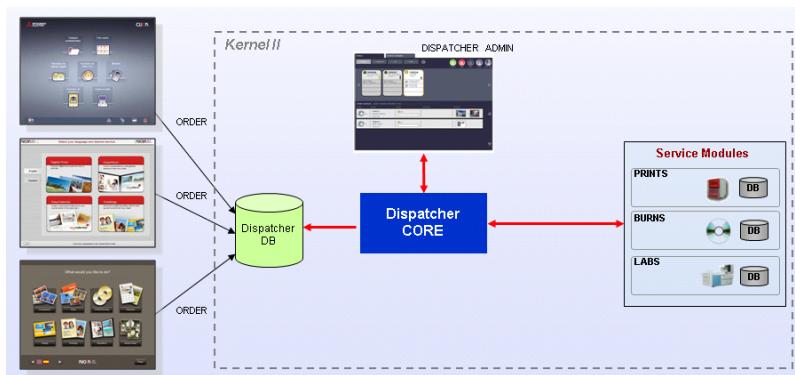
## 1 Dispatcher concepts and definitions

In a Flexilab system, orders can be made from external devices, which are then processed by a centralised Dispatcher. This structure makes it possible to connect several Kiosks in Order Terminal mode.

In a system configured in this way, all the orders from Order Terminal Kiosks are processed by the Dispatcher. ClickPRO orders are also brought together in the Dispatcher.

As the system operator, it can organise the execution of orders, change settings, review job records, etc.

The following diagram shows the connectivity of all the modules in the system, and the information flow.



- **Dispatcher CORE:** This is the main Dispatcher application which must always be operating. This application processes all the orders and services, keeping control and managing the queue of pending jobs for the various output devices. The monitor application starts the dispatcher core motor and makes sure it is constantly operating.
- **Dispatcher ADMINISTRATION:** This is the interface used by the operator to view and organise orders and services. It is not necessary for Dispatcher Administration to be open all the time for jobs to be done correctly. However, its use is recommended with connected Order Terminal machines as it is the interface which enables the operator to accept incoming orders that are not approved automatically (pending payment, etc...)
- **Service Module:** Output devices which process the services included in a client's order. For example, 10 x 15 cm (4 inches x 6 inches) digital photo is printed by the DPS Print Server Service Module, which chooses the best printer for processing the image.

### 1.1 Application standards

The application is based on standards to facilitate its use and provide increased client satisfaction. Some of the guides applicable to the entire system are shown below.

#### 1.1.1 Status colour coding

Dispatcher Administration shows the status of orders and services using coloured circles.



- Pending
- Executing
- Paused
- Error
- Done
- Batch executing (can be executed later)

### 1.1.2 Multiple selection

In the list of incoming orders, several orders can be selected at the same time by checking each one separately. To deselect an order, check it again.

After several orders have been selected, the same action can be applied to the entire set (approve, validity with pause or delete).

### 1.1.3 Editing, optional fields and of information.

The following standard is applied to all fields containing information:

White Background: compulsory fields. The information must be completed or selected.

Light cyan blue background: Optional fields. These can be left blank.

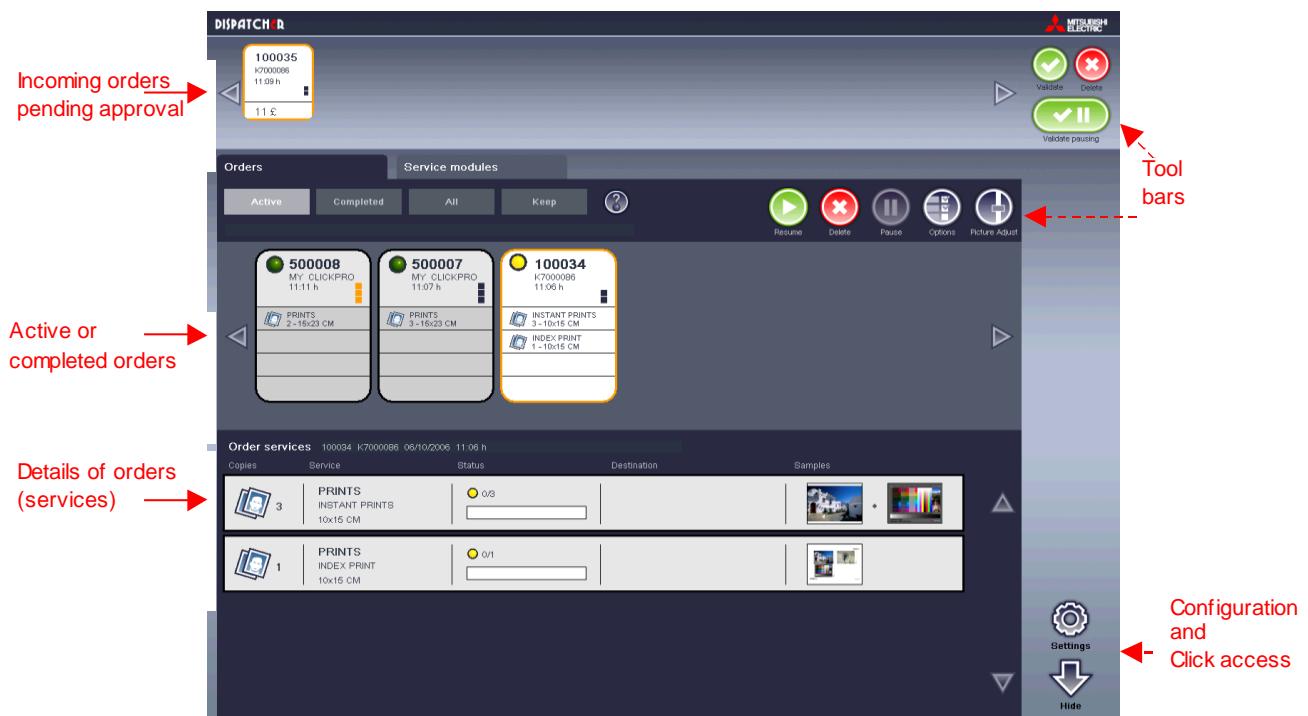
Grey or transparent background: Information fields. These cannot be changed.

## 2 Dispatcher administration interface

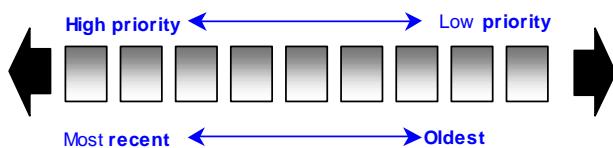
Dispatcher Administration is an application which can be started manually from the Kiosk/Click application. It can be opened and closed without this affecting the work being done.

### 2.1 Preview of the main screen

The main screen consists of various sections and tool bars, depending on the objective of each section.



All the lists are ordered by priority and time. The left hand side of the list contains higher priority orders, while those with a lower priority or older ones are on the right. The list of completed orders is ordered by date of ending (more recent ones are shown first)



- Order and service files

Each order is represented by files containing information as a summary, either about the services involved, or about the order itself.

### Entry of orders pending approval



- + Order identifier. A ticket is generated with this identifier in Kiosk or Click (999998)
- + Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (K70XAVI)
- + Day and time of order creation (those on the same day will only be shown with a time)
- + Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").



- + PRICE of the order
- + Order payment indicator. If the order has been paid for at the Order Terminal this image in the file will appear in the file before it is approved. It shows that it can be approved before the client comes to collect his/her completed order.



### Entry of orders in transfer



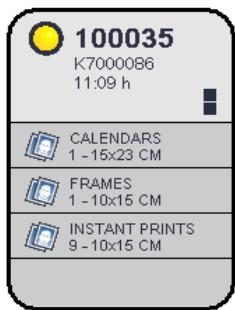
- + Order identifier. A ticket is generated with this identifier in Kiosk or Click (500031)
- + Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (C5000006)
- + Day and time of order creation (those on the same day will only be shown with a time)
- + Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").



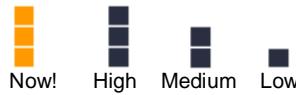
- + File transfer progress bar.
- + PRICE of the order
- + Order payment indicator. If the order has been paid for at the Order Terminal this image in the file will appear in the file before it is approved. It shows that it can be approved before the client comes to collect his/her completed order.



### Orders approved



- + Order identifier. A ticket is generated with this identifier in Kiosk or Click(100035)
- + Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (K7000086)
- + Day and time of order creation (those on the same day will only be shown with a time)
- + Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").



- + Service identifiers. Each order may have several services. This file shows the first 4 with a short description of the type and format, and the number of copies.

## Services

Copies	Service	Status	Destination	Samples
2	PRINTS PRINTS 16x23 CM	2/2	Printer 1	+

- **Copies, Service, Status, Samples**

A service file contains details of the status of the service, its progress, date of ending of the service, and a preview of the first and last image in the service.

- **Destination**

The destination may contain one or several devices, or may even not have any assigned to it. This latter case only arises in services that have recently been created and which still do not have an output device assigned to them. The service module will assign devices according to its internal assignment policy. It is possible to specify a destination before sending the service (ClickPRO) to force it to be printed by a certain printer, for example.

## 2.2 Incoming orders section (does not appear in Clicklite)

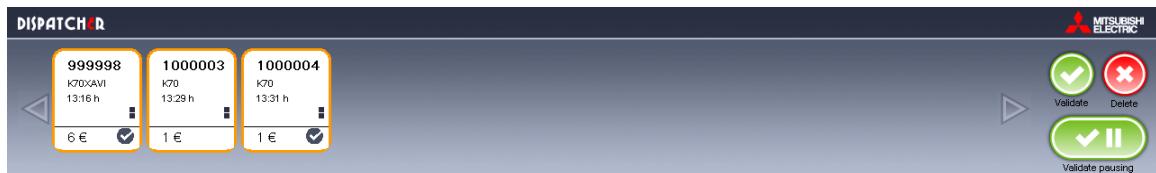
All the orders requested by DPS Systems which are pending validation can be seen in this section.

Orders that have already been paid for at the Order Terminal, or those from a Click will be automatically transferred to the active orders section (configurable).

### NOTE

It is possible to automatically accept all orders, using the Dispatcher configuration screen and changing the setting of the "ORDERS" group labelled "AUTO\_APPROVE" to TRUE.

However, to make incoming orders always pending validation, the value of "AUTO\_APPROVE" must be FALSE.



## 2.2.1 Approval of orders

In order to approve an order, select it in the main browsing panel and press the "approve" or "approve with pause" button.

This panel enables multiple selections to be made: Several orders can be selected at the same time and all of them approved in a single operation.



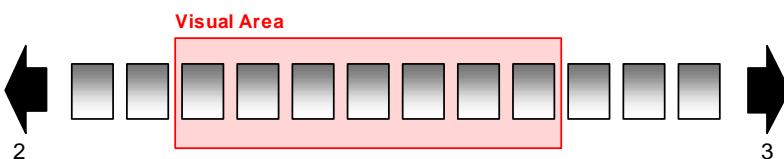
- **Approve:** After the order has been approved, it disappears from the panel and reappears in "Active Orders" as "Pending". This means that the order is processed automatically as soon as the appropriate Service Module is available.
- **Approve with pause:** When an order is approved with a pause, it also appears in the "Active orders" panel, but is not processed while it is "paused". This order waits indefinitely, until started manually by an operator. This option is useful if an operator needs to make adjustments to the image or to change the order options before executing it in the Service Module.

## 2.2.2 Browsing incoming orders

All incoming orders are stored in this section until they are approved. Hundreds of orders can be stored this way. The arrows on the left and right must be used to view them.

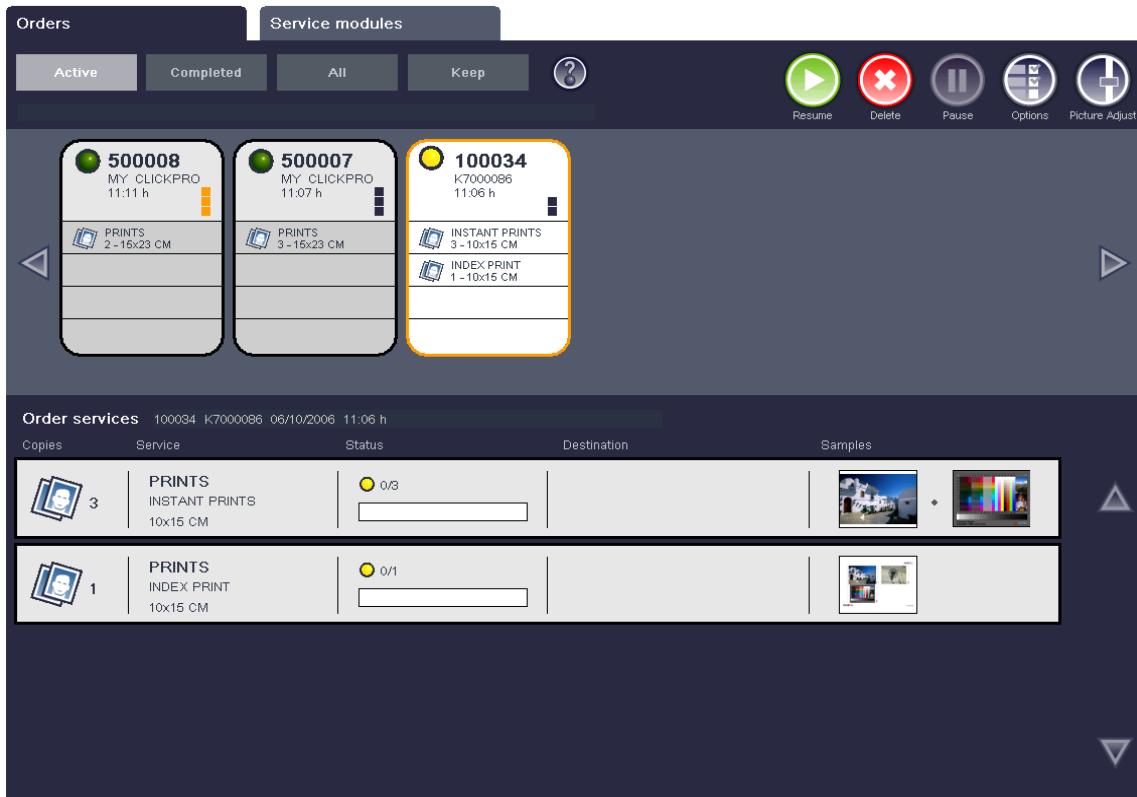
The arrows are disabled if all the orders fit in the visible space on the screen. When the arrows are enabled, they are shown in a different colour and a number appears inside them, showing the amount of hidden elements in each direction.

The example below shows the contents of the arrows.



## 2.3 Active orders section

The orders included in this section are those that have been approved and which may be processed at any time. This depends on the availability of the Service Modules and the status of the order.



The status of an order may vary, and is represented by the colour codes described above.

An order being executed may be paused at any time<sup>(\*)</sup>, and the Service Module stops work on it.

<sup>(\*)</sup> Depending on the Service Module, it is possible that an order remains paused, due the risk of damage to the medium or application. For example, copying a CD cannot be stopped, but printing of a digital photo can.

### 2.3.1 Selecting an order

Click on an order to select it. The colour and edge will change.

When an order is selected the buttons on the toolbar show the possible actions at that point (change configuration, stop, start, leave in pause mode, delete, etc.).

Some actions are disabled in some order statuses.

### 2.3.2 Services in an order

Once the order has been selected, its details appear at the bottom of the screen.

Service is deemed to mean: the format, progress, amount of images, output devices and the first and last image of those selected.

It is also possible to select a service and the toolbar will change according to the actions that can be taken in each case, which also depend on the status of the service.

### 2.3.3 Toolbar and status bar

The toolbar consists of various buttons. Each allows different actions to be taken on the execution of the order or the service.



There are some limitations on the way some actions can be executed. Depending on the status of an order or service, some actions may not be available.

Some status have certain associated actions. The following list gives details of these actions.



- **RESUME**  
If an order has been selected, this action will start all its services with a status of PENDING, DONE, in ERROR, or PAUSE



- **DELETE**  
This button only affects an order which is stopped (PAUSED, ERROR or DONE) and deletes it from the system, although some data are kept internally for inclusion in statistics.



- **PAUSE**  
PAUSE is only applicable to orders or services with a status of IN EXECUTION, or PENDING. This action stops the execution, or holds up the queue for the order/ service in question, moving on to the next services in the queue according to the order of priority.



- **OPTIONS** (*not available in Kiosks in Standalone mode*)  
Enables the options of any element (order/service) to be seen and some of their settings to be modified, depending on their status. The statuses that allow modification of the data are those which are “inactive” (DONE, ERROR, PAUSED).

When this button is pressed, the options window appears, and remains visible until the button is pressed again.

When editing options, it is possible to change between orders and services with no need to hide this window.



- **PICTURE ADJUST** (*not available in Kiosks in Standalone mode*)  
It is possible to access the adjustments screen from an order or from a service. If access is from an order, all the images belonging to it will be edited.

#### RESTRICTIONS

All the orders from a Kiosk in Standalone mode contain which the client's files must be deleted for legal reasons, as explained in the terms and conditions. For this reason, Dispatcher deletes all the images of orders from the system once they have been completed.

### 2.3.3.1 Status of orders

The status of orders changes automatically according to the changes in status of services.

The following list shows the various statuses in which a service may be and how this affects the final order. The priority is from HIGH to LOW.

PRIORITY	STATUS OF THE ORDERS ordered by the most restrictive statuses requiring manual operation
HIGH	ERROR
	PAUSED
	EXECUTING
	PENDING
	DONE
LOW	

For example, in a pending order with 3 services; if 2 are in EXECUTING and 1 in ERROR, the status of the order is ERROR because this shows that an operator's attention is required. Services in EXECUTING continue to be executed until they are completed.

Paused devices are also given a high priority on the list above as they require manual intervention by the operator.

### 2.3.3.2 Limitations

If "PAUSED" is activated for an order/service, its execution is paused, but other new orders or services continue to be executed as normal.

If RESUME is activated for an order/service which is PAUSED, in ERROR or DONE, it is reactivated, and its status becomes PENDING. The order/ service will not be processed until the Service Module is free again.

It is possible to "KEEP" an order from a Kiosk or Order Terminal to keep it in the system until it is permanently deleted manually. This is useful for saving sample orders, some interesting orders from clients you wish to save for some time, etc.

A service with an ERROR status may continue being executed using the RESUME option. This enables the service to be resumed at the exact point where it left off.

The table below shows all the possibilities for action for orders and services depending on their status.

Actions Toolbar & options									
Type	STATE	START	PAUSE	OPTIONS (Orders)(2)	OPTIONS (Service Modules)(6)	DELETE	ADJUSTMENT (2)	KEEP (2)	EXPORT to Click(2)
ORDERS	PENDING	Yes (4)	Yes	Yes			Yes (7)	Yes	
	PAUSED	Yes		Yes (5)		Yes	Yes	Yes	Yes
	ERROR	Yes		Yes (5)		Yes	Yes	Yes	Yes
	EXECUTING		Yes	Yes			Yes (7)	Yes	
	BATCH_EXECUTING		Yes	Yes			Yes (7)	Yes	
	DONE	Yes		Yes (5)		Yes	Yes	Yes	Yes
	KEEP	Depends on the status of the orders			Depends on the status of the orders				
	TO_APPROVE	Yes (validate)	Yes (validate)			Yes			
	TO_RESUME		Yes	Yes			Yes	Yes	
SERVICES	PENDING		Yes	Yes			Yes (7)		
	PAUSED	Yes		Yes (3) (5)			Yes		Yes
	ERROR	Yes		Yes (3) (5)			Yes		Yes
	EXECUTING		Yes	Yes			Yes (7)		
	BATCH_EXECUTING		Yes	Yes			Yes (7)		
	DONE	Yes		Yes (3) (5)			Yes		Yes
	TO_RESUME		Yes	Yes			Yes		

TABLE 1

If the system has eliminated the service files, only the delete-option will be possible on it.

Only activated in a Click. A subfolder is created in the professional workfolder with the order identifier, so that it can be easily identified.

The priority of a service cannot be modified.

It is possible to restart an order in pending status if an order with "Now" priority has stopped another incoming order.

The options can be seen and edited.

Shows adjustments in reading mode.

### 2.3.4 Details of services

The information on a service which appears when an order is selected is useful for monitoring the steps to take and the status.



- **Copies:** The number of images for processing is shown in the first section. When burning CDs, the number of CDs is normally 1.
- **Service:** Shows the print format (10 x 15) or the type of service for IndexPrint, calendars, card photos, etc.
- **Status:** Shows a progress bar and the completed / total number of copies.
- **Destination:** Shows the output device/s for the service if it is already being processed. If these services have not yet been assigned to a device, an "Output device not yet assigned" message appears.

There is only one case in which the destination is known before assignment of the Service Module - when a destination device isn't determined from the source application. (E.g. ClickPRO)

This information is useful for collecting jobs after they have been processed, when there are more than one output device.

For example, a PRINTING service in balanced mode can be printed on all the connected printers which offer this format. This section shows the "alias" of all the printers which process this type of service.

- **First and last images:** Shows a thumbnail of the first and last image in the service.

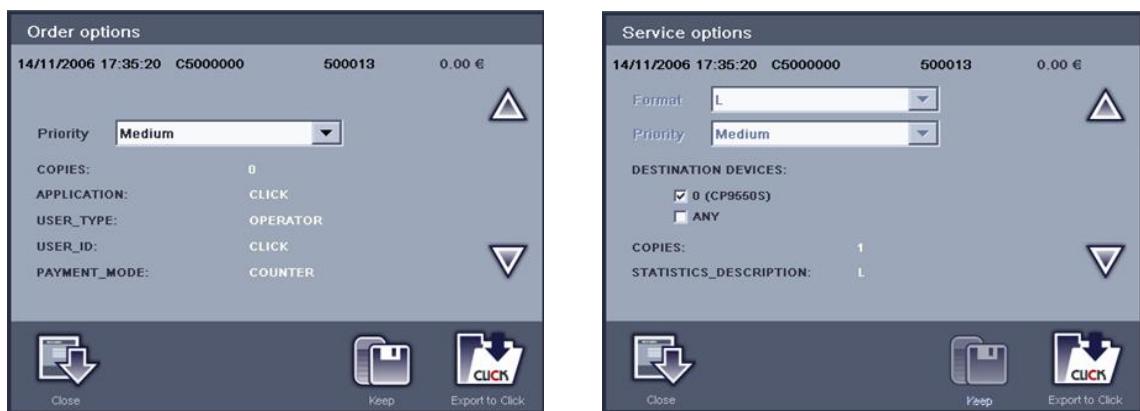
### 2.3.5 Order/service options



Order and service options can be edited and viewed using the options button on the toolbar.

This window activates a pop-up window showing the options for the selected element (order or service) and enables some settings to be modified.

The options for orders and services are not translated as they are internal Dispatcher values. The meaning of each is listed below.



#### 2.3.5.1 Restrictions

It is not possible to edit options in orders or services if their status is Executing or Pending. Changes cannot be made in these cases.

It is also not possible to EXPORT TO CLICK for an order which is being processed.

It must first be left "IN PAUSE" in order to be able to make changes.

### 2.3.6 Order options

Some settings or options in the order can be modified. All the internal options in the order can be seen as complementary information.

The order settings which can be changed are:

- PRIORITY: An indicator of priority within the following values: High, Medium, Low, Now! (Immediate).  
The Now priority is the highest, and leads to any job with a lower priority that is being executed being stopped. When the order is completed the order is reestablished according to what the other orders were being executed.

Some of the common read only settings in an order are:

- INITIAL\_TIME (start time): The date and time when the order was created.
- END\_TIME (end time): The date and time when execution of the order was completed.
- SOURCE APPLICATION: The name of the application which generates the order.
- USER\_TYPE: The type of user executing the order. This is useful for orders from an Order Terminal/Kiosk (operator, end client, etc.)

### 2.3.7 Service options (optional)

The service settings shown depend on the destination Service Module and the type of service.

- COMMON SETTINGS:
  - FORMAT: The output format which is used in this service (Example for printing: 10 x 15cm or 4 x 6 inches, etc., CD burning: DVD\_8Gb, etc., DPSLab: 1 hour, 24 hour service, etc.)
  - DESTINATION\_DEVICE (destination printer): Enables the printer printing the service to be changed. Only the printers using the format in question are offered.
  - COPIES: Number of images / CDs etc. processed for the selected service.
- PRINT SERVER:
  - QUALITY: 1,2,3 (Normal, Fine, Superfine)
  - BALANCED (balanced mode): TRUE/FALSE depending on whether the printing mode is balanced or blocked
  - WHITE BORDER: True/False
  - FIT\_TO\_PAPER: False
  - COLOR\_OPTIMIZED: Colour optimisation (Colour / Black and white)
  - FIT\_TO\_PAPER: TRUE/FALSE To fit the image to the paper, trimming the image to maintain the proportions.
  - ERROR CODE: (Not visible if there is no error): An error code, only when there has been a problem in the service.
  - ERROR DESC: (Not visible if there is no error): Description of the error code.
- CD BURNING:
  - ACTION (Result of creating a CD): SUBLIME (creation of a CD with the client's images and the SUBLIMECD application), BACKUP (back-up copy CD), ERASE (deletion of CD), QERASE (Quick delete)

- SESSION\_NAME: Internal name of the CD compilation (only available for SUBLIME and the CD BACK-UP COPY)
- LANGUAGE: Default language for the SUBLIMECD.
- DPSLAB:
  - TAX: Amount of money for tax applied to the Service Module.
  - CUSTOMER\_ASK: Questions that the Kiosk or ClickPRO will ask clients to obtain information about them (address, telephone number, etc...)
  - SERVICE\_ASK: Questions defining the type of service to be carried out (Colour/B+W, White border, etc.)
  - PRODUCT\_ASK: Questions related to the product.

### 2.3.8 Exporting orders and services to Click



Selected orders and services can be sent to Click from the options screen

The selected orders/services are transferred to a Click work folder as a subfile with the same name as the order number.



To access these exported orders, access the Click application and the work folder opens to view the order for editing.

Because an order can be exported as many times as desired, if the order exists in Click, a folder is created with a number (1), e.g. "DISPATCHER\_222333 (1)"

### 2.3.9 Saving orders permanently



Orders of interest can be saved permanently in the system. To delete them afterwards, the "Cancel" button is used.

The orders saved are visible from the STORE tab.

Orders can be saved regardless of their status. A saved order can reexecuted at any time and as many times as necessary.

### 2.3.10 Apply changes



This button is used to apply changes to the values in the options panel, so that they are effective and the screens are updated with the new values.

### 2.3.11 Preview and touching up of images in orders/services

Orders normally consist of photographic services or include images. The first and last images they contain are shown in the details of services (in the active orders section).

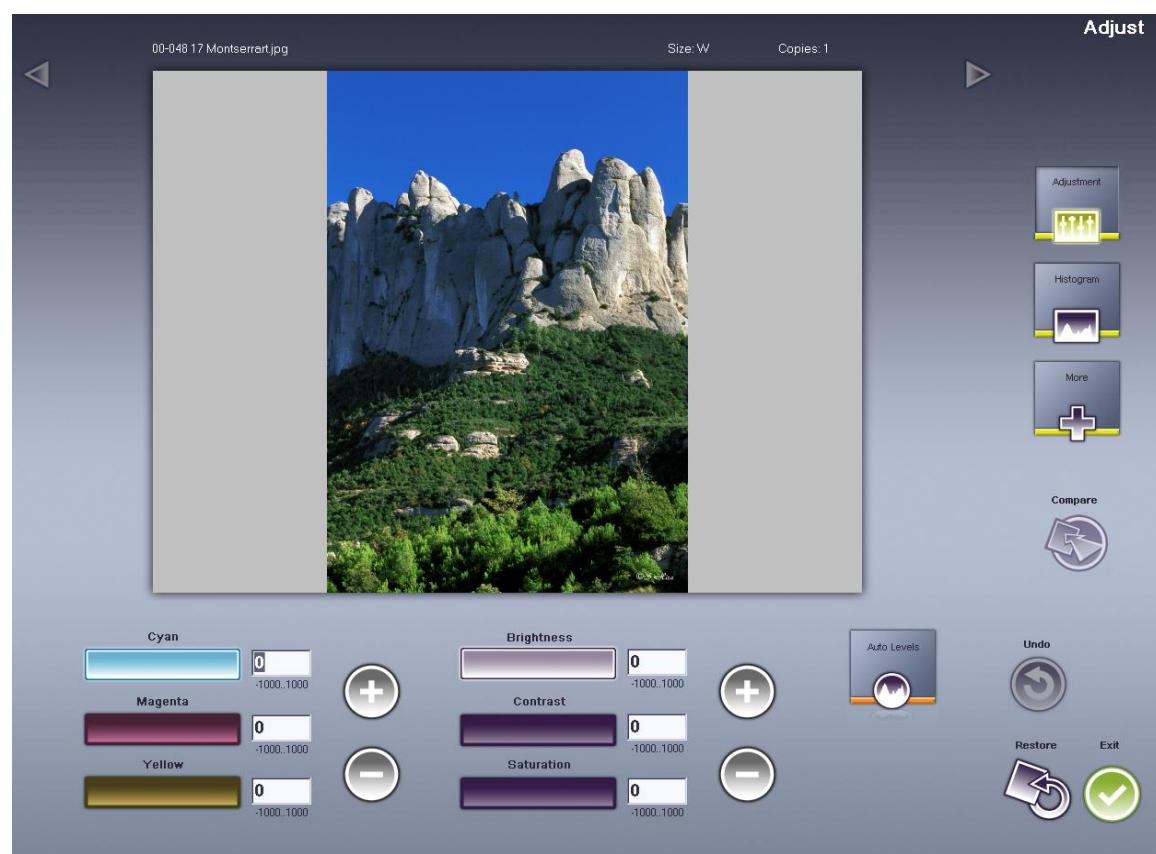


Dispatcher allows previewing of the entire contents of the services, and adjustments to be made quickly. An order can be completely modified, moving automatically from service to service.

All the images involved are shown on the preview/adjustments screen, where all the changes made can be saved.

#### RESTRICTIONS

It is not possible to adjust images of orders/services which are being executed or pending. In this case, it is only possible to preview the contents.



Operation of this screen is explained in the Click manual.

## 2.4 Default filters for orders

From here, orders can be viewed and filtered to work quickly with those needing most attention, already processed orders can be recovered.



#### 2.4.1 Active orders

Shows the orders currently active. This refers to orders with the following statuses: PENDING, IN PAUSE, ERROR, EXECUTING and all their services.

This list is ordered from high to low PRIORITY and by date. The orders on the left of the list have the highest priority, and the ones on the right the lowest priority.

#### 2.4.2 Completed orders

These are those with a DONE status and whose services are also DONE.

This list is ordered backwards by date and time of completion. The first order on the left will be the last to have been processed, and the one on the right the oldest. The date shown on the file is the creation date, but when the order is selected, the completion date of each of the services can be seen on the progress bar.

#### 2.4.3 All orders

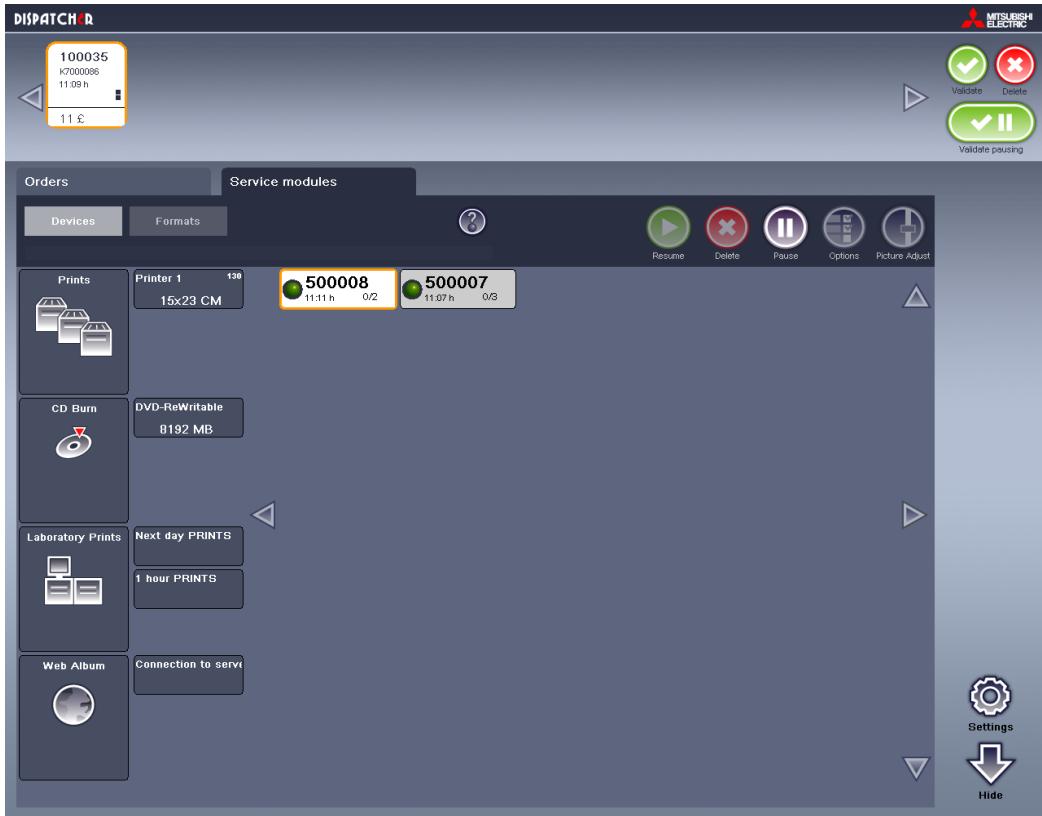
This shows all orders, both active and completed, and those marked with SAVE.

Completed orders in SAVE status are shown in the panel of completed orders until the day specified for the Garbage Collector. From this date onwards, orders are only visible from the SAVE tab.

#### 2.4.4 Orders to save

Orders which can be in any status but which are marked as SAVE. The operator chooses to save them from the options panel.

## 2.5 Service Modules



### 2.5.1 Devices

This view enables viewing of the physical devices of all the service modules and the services of the associated orders. The visible services are those which have been assigned by the service module, or whose destination device is already known. (e.g. specified from Click).

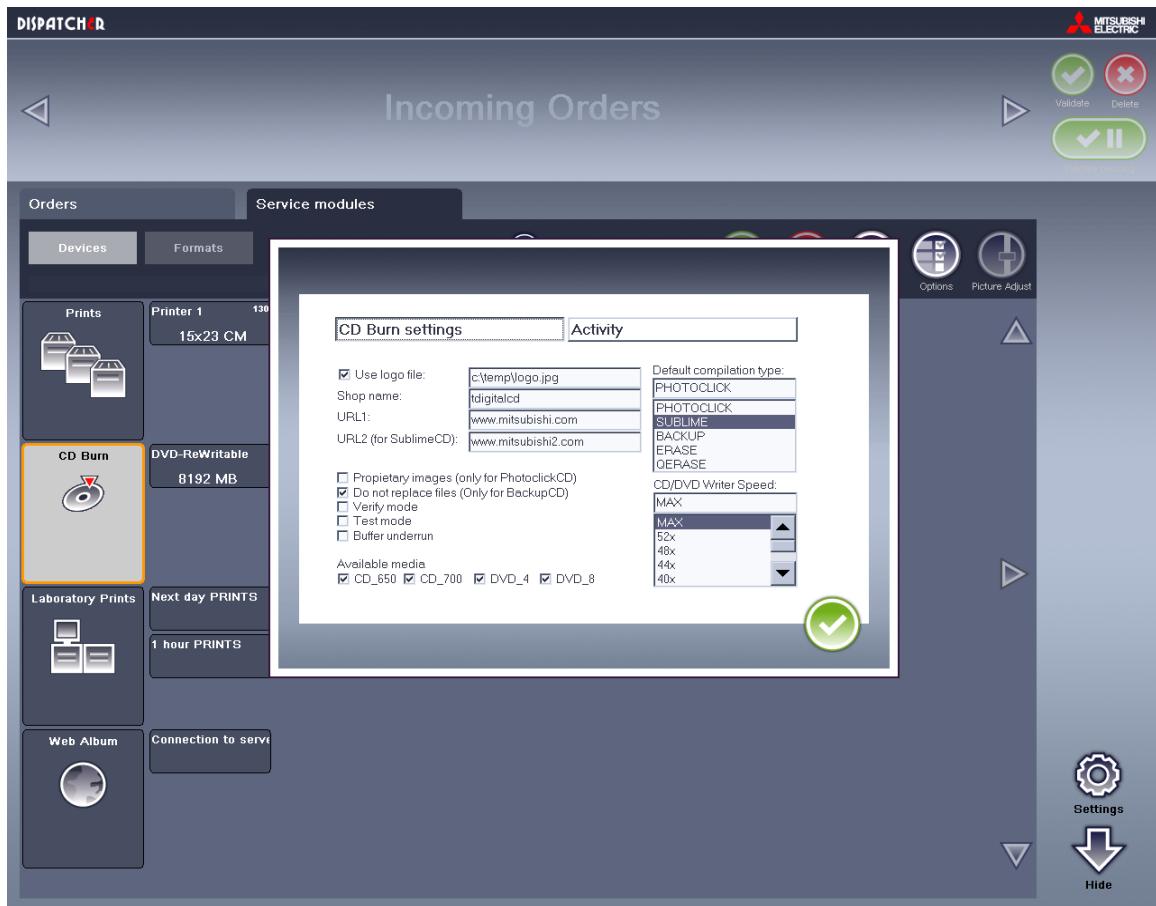
Unassigned services cannot be seen in this section.

This screen is useful for finding out the amount of services that will be performed by specific devices. It is possible to PAUSE and RESTART/CONTINUE services according to needs, using this interface.

#### 2.5.1.1 Open specific Service Module adjustment application

To open a Service Module, press the button which identifies the Service Module to select it, and then the OPTIONS button on the toolbar.

This action opens the Service Module screen with its options and extensive information. The example shows the options screen of the CD Burn Service Module:



### 2.5.1.2 Working with services and their actions

Changes can be made to the services using the toolbar buttons. The status of each service is shown in the same way as on other screens (a coloured icon).

#### 2.5.1.2.1 PLACING A SERVICE MODULE IN PAUSE MODE

It is possible to place a complete Service Module in pause mode by selecting and pressing the "PAUSE" button. This makes the Service Module stop all the jobs it is processing until it is released again. It will then continue working at the point where it left off.

Some Service Modules, such as CD burning, cannot be stopped when the process has started, as the output device could be damaged. In this case, a message appears stating that the action is impossible.

#### 2.5.1.2.2 PAUSE MODE, RESUME, STOP AND EDIT A SERVICE

This screen enables the common actions on the toolbar to be executed on the selected service.

#### 2.5.1.3 Completed services - "DONE"

Completed services appear on this screen, until the execution of a new service in the same device starts, or until the device is released, if it is in pause mode after processing. This is useful for identifying the output device for a specific service.

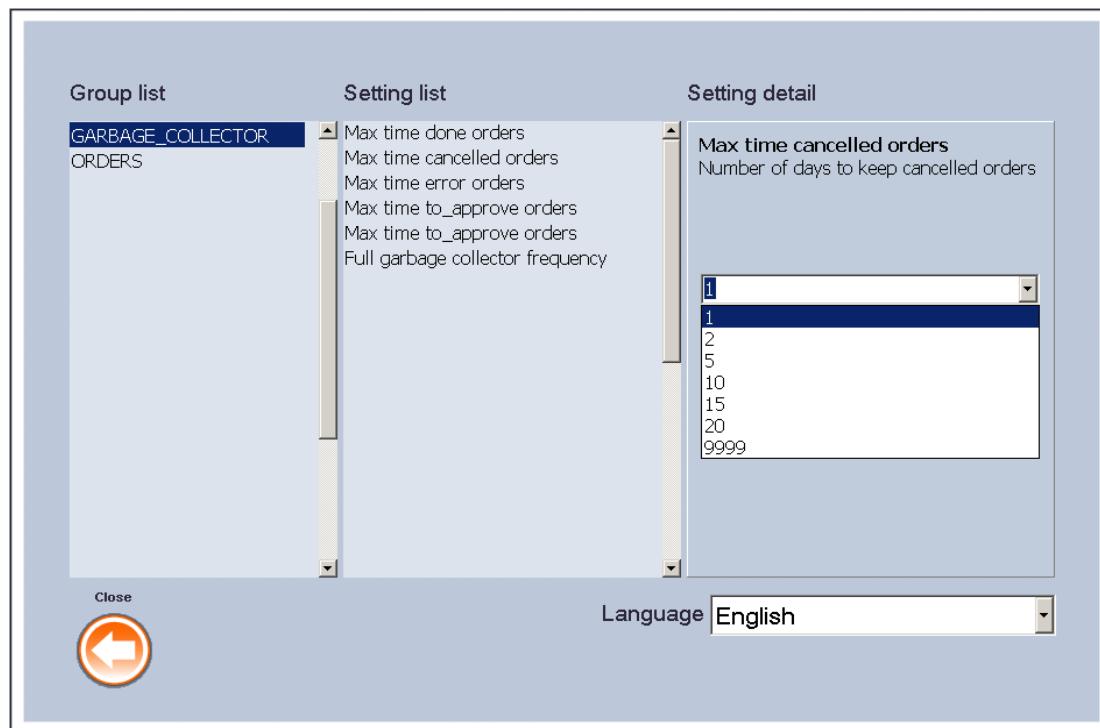
## 2.5.2 Formats

This screen enables viewing of all the Service Modules classified by output format, regardless of the amount of devices they support.

The services appearing are those that the Service Module has assigned or those for which the destination format is already known. For printing services, the formats could be 10 x 15, 13 x 18, etc.

## 3 Dispatcher configuration

### 3.1 Configuration administration screen



#### Group list

ORDERS	Setting list	Setting detail
AUTO_APPROVE		<p><i>TRUE</i>: All orders reaching Dispatcher are automatically approved</p> <p><i>FALSE</i>: All orders reaching Dispatcher must be approved manually.</p> <p><i>CHOOSE</i>: Incoming orders are approved or pending approval depending on the source application. Pre-approved orders can be generated automatically in Kiosk depending on whether the client paid for it in that Kiosk. (Although this can be configured in Kiosk settings)</p>

**GARBAGE COLLECTOR**

Old orders are checked for every 24 hours. The configuration of the following settings determines the action to be taken on orders:

Setting list	Setting detail
<i>MAX TIME DONE ORDERS</i> : (default value 1 day)	
Frequency of cleaning up of completed orders. Numerical value specified in days.	1-9999: shows how many days orders are saved for.
<i>MAX TIME CANCELLED ORDERS</i> : (default value 1 day)	
Frequency of cleaning up of cancelled orders. Numerical value specified in days.	
<i>MAX TIME ERROR ORDERS</i> : (default value 0 days - disabled)	
Frequency of cleaning up of error orders. Numerical value specified in days.	
<i>MAX TIME PENDING ORDERS</i> : (default value 0 days - disabled)	
Frequency of cleaning up of pending orders. Numerical value specified in days.	
<i>MAX TIME TO_APPROVE ORDERS</i> : (default value 0 days - disabled)	
Frequency of cleaning of orders to be approved. Numerical value specified in days.	
<i>FULL GARBAGE COLLECTOR FRECUENCY</i> : (default value 365 days)	Configuring the system to clean orders over one year old is recommended. If the value is 0, the statistics data are never deleted.
<i>STATISTICS_CLEANUP_TIME</i> : (default value 365 days)	
Frequency of cleaning of order information from the system. The statistics data disappears.	

**TRANSFER**

Setting list	Setting detail
<i>LOCAL PATH</i> : Local folder, where incoming orders are stored. This folder must be writable.	
<i>SHARED PATH</i> : This is the shared name for the LOCAL PATH folder.	

In any of the above cases, part of the order data is saved in the system for counting in statistics.

The following parameter is used to delete these data automatically

## 4 Special Features of Service Modules

### 4.1 Print Server

The printing service is more complex in a Flexilab system, and the effect of some status changes on the Dispatcher administration interface warrants special attention.

Print Server can be configured in various ways. The configuration of the application and the connected printers and their formats may affect the status shown in Dispatcher.

The following table shows all the possible cases changing the status of Dispatcher and as a consequence is helpful in interpreting the information on the screen and quickly finding areas which require manual intervention for the recovery of errors in the printers (no paper, etc...)

		DISPATCHER		Print Server
		Dispatcher ORDERS/SERVICES status	Dispatcher DEVICES status	
ORDER mode	1 Printer ("ANY" balancing option) or DESTINATION DEVICE selected	Printer OK	EXECUTING	OK
		The printer is in ERROR	ERROR - If relaunched, it is assigned to the same original printer	DeviceERROR
		Printers OK	EXECUTING	OK
		Some printers in ERROR	EXECUTING and the part of the job assigned to the printers which have ERROR have to wait.	Device ERROR
	N Printers ("ANY" balancing option) or DESTINATION DEVICE selected	All the printers in ERROR - or it is impossible to continue	EXECUTING. The job waits for the change of paper or solution to the problem.	Device ERROR
			No other service can take priority until the one being executed is completed.	NOT automatic (can be changed from Dispatcher options) If all the printers left to finish printing fail, there is EXECUTING until the problem is solved
SPEED "MULTIPRINTER" mode (DESTINATION DEVICE = ANY)	1 initial printer (then other printers with the same format can be assigned)	Printer OK	EXECUTING	OK
		The printer is in ERROR	ERROR	Device ERROR
		Printers OK	EXECUTING	OK
	Several printers assigned (balanced automatically)	Some printers in ERROR	EXECUTING	Device ERROR
		All the printers in ERROR - or it is impossible to continue	ERROR	Device ERROR
"SINGLE PRINTER" mode (with or without DESTINATION DEVICE) SPEED and ORDER do not matter	1 Printer (1 with only 1 format) and optionally, DESTINATION DEVICE	Printer OK	EXECUTING	OK
		The printer is in ERROR	ERROR	Device ERROR
		Printers OK	EXECUTING	OK
	N Printers (balanced option "ANY")	Some printers in ERROR, but this does not affect the printer assigned initially.	EXECUTING	Device ERROR
		ERROR in my printer	ERROR	Device ERROR

# **APPENDIX**

## **DPS Monitor**

**Revision 2.0**

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## 1 General information

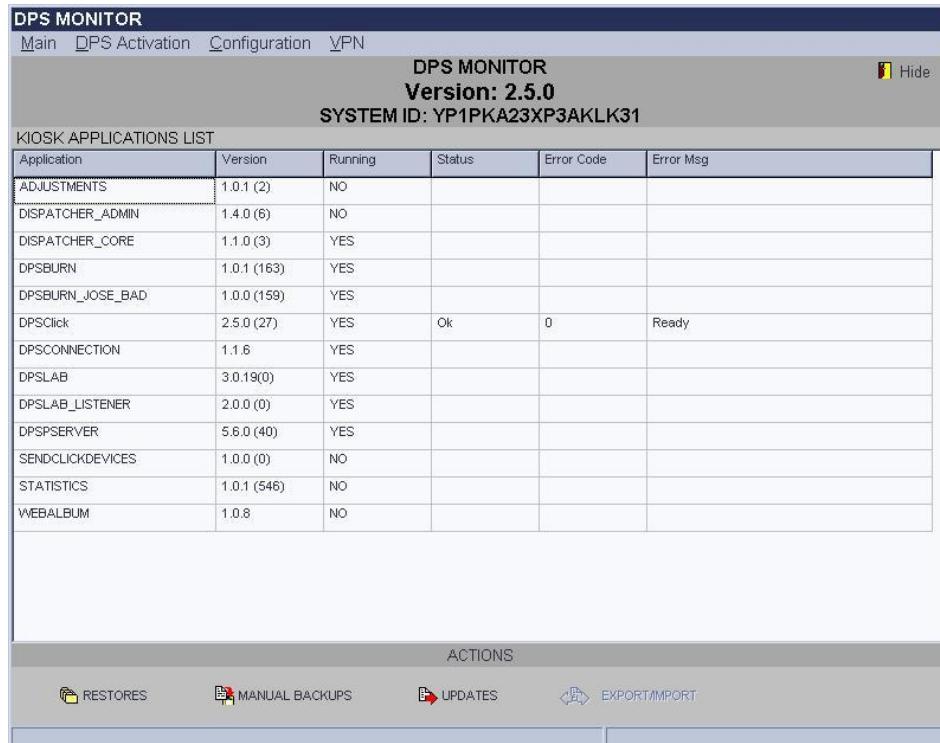
This module checks the general status of the other programs and manages communications with the DPS server if the software is ONLINE. Its specific functions are:

- Management of the system activation.
- Loading all the DPS applications in the correct order when the system is turned on
- Checking on the general state of DPS applications
- Opening and closing all the DPS applications
- Management of communications with the DPS server. This includes:
  - **Notification of incidences related to hardware malfunctioning**
  - **Notification of the activities of all completed operations**
  - **Notification of the state of devices and DPS applications**
- Backup copies and recovery management
- Restarting of the machine at a specific time.



The operator can access the DPS Monitor from the operator menu

The main DPS Monitor window is shown below.



- Display the global software version installed in this machine.
- Show the machine System ID. The SystemID is used for the registration and activation of applications in DPS Systems. The SystemID is unique for each machine.

- The applications installed and their current version is identified in the *application* and *version* columns.
- The *running* column shows if the application is running.
- The *status* and *error code* columns show the status of the devices (which may be *ready*, *warning*, *critical warning*, *error*, *initializing*) and a code which identifies the type of error in the device and what is necessary for the technical service to be able to solve the problem.
- *Error Msg* provides a brief explanation of the type of error.

From the main menu, it is possible to:

- Run or close the applications manually.
- Restart or shutdown the system.
- Registration and activation the software..
- Selection application to execute in the system.
- Enable/Disable the hardware detection to be connected the machine.



- Enable/Disable the USB device writing protection.
- This option allow the writing to the internal or external USB device.

For enable this option must be select the *Menu Configuration*, *USB Protection* section and select **Enable**.

For disable this option must be select the *Menu Configuration*, *USB Protection* section and select **Disable**.

The default option is “Enable” for DPSKiosk software. This means that every time the machine gets power on the USB write protection will be enabled.

For DPSClick and ClickLite software, the default option is “Disable”.



**IMPORTANT**

When a USB is inserted in the machine, the parameter of the USB protection assigned for this device will be selected in that configured in the DPSMonitor en in the insertion moment.

If the USB protection parameter is changed, must will be extract and insert again the device for apply the new parameter.

**Reference:**

Mitsubishi Electric DPS Software is based in technology Copyright © 1995-2006, Oracle. (All rights reserved) for the internal management information.

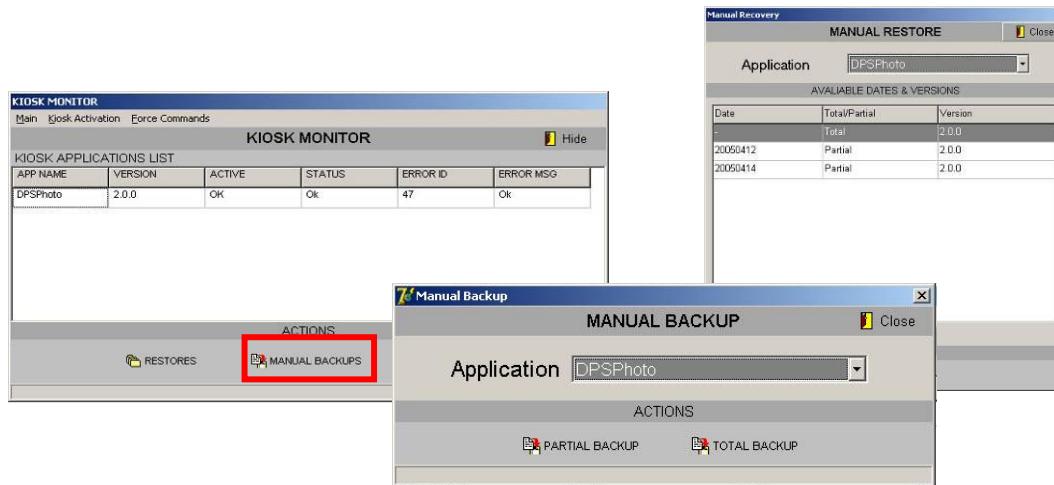
## 2 Back-up and recovery

DPS monitor automatically creates backup copies of critical files of all DPS applications. These are saved in the folder R:\Backups. These files are the databases related to the system configuration (Prices, general configuration, etc.) There are two types of backup copies:

- Partial back-up  
All the information on databases and images in remote requests are saved providing that the system is shut down (see section 'Shut down').  
A maximum of 10 partial backup copies are made at the same time. The previous copies are deleted from the system and only the last back-up copy is saved if two copies are executed on the same day.
- Total back-up  
All the information on the database and all the DPS Application files (except for the Calendars and Frames) are saved whenever a remote update is executed. A maximum of 3 total backup copies can be executed at the same time and only the last back-up copy is saved if two copies are executed on the same day.

The operator/ supervisor can execute a back-up copy manually from the main screen of the DPS Monitor:

1. Push the "Manual backups" button
2. Select the DPS application for which you want to make a back-up copy
3. Choose the type of back-up copy



The operator can restore the information saved manually from the DPS Monitor main screen:

4. Push the "Restores" button
5. Choose the DPS Application to be recovered
6. Choose the back-up copy for which you wish to recover data

### 3 Selecting applications to be run

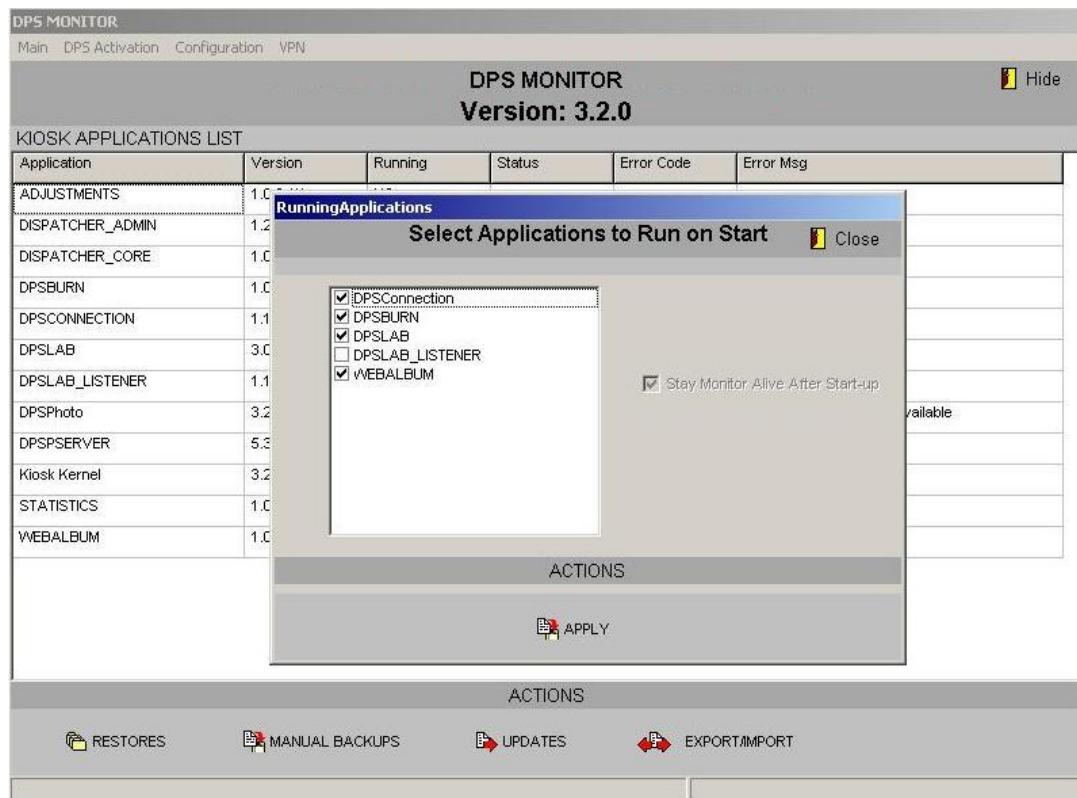
**NOTE**

Only personnel authorised by the manufacturer can make changes on this screen

It is possible to select the applications that will be run when the machine boots up. System performance will increase proportionally to the number of applications disabled. Each application is associated with a series of services and therefore disabling a given service will stop these services from running. The following table shows the relationship between applications and services:

Option in Click and Kiosk	Option on Monitor (internal name)	Services affected if disabled
Activate Monitor Manager	Monitor_Alive	Remote updates, web statistics and device warnings, Backups,
DVD / CD Burning	DPSBurn	Burning DVD / CD
Labs Laboratory	DPSLab	Laboratory Services
External orders (web)	DPSConnection	Remote updates, web statistics and device warnings

To access this screen, click the option *Running applications* in the *Configuration* menu.



Regardless of what is selected on this screen, the system has a series of restrictions that will modify this selection subsequently. These restrictions depend on the product and whether it is *Online* or *Offline*, as the following table shows:

Product	Offline	Online
Kiosk Standalone	DPSConnection are not run	DPSConnection and Monitor are run
Kiosk OT	DPSConnection are not run	DPSConnection and Monitor are run
Click	DPSConnection or Monitor are not run	DPSConnection and Monitor are run
Click Lite	DPSConnection.	A Click Lite will not be Online

**IMPORTANT**

From Click v2.6.0 and Kiosk v3.6.0 software, the Monitor Manager application will be available by default in all software, even in ClickLite application.

# **APPENDIX**

## **DPS PrintServer**

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## 1 General

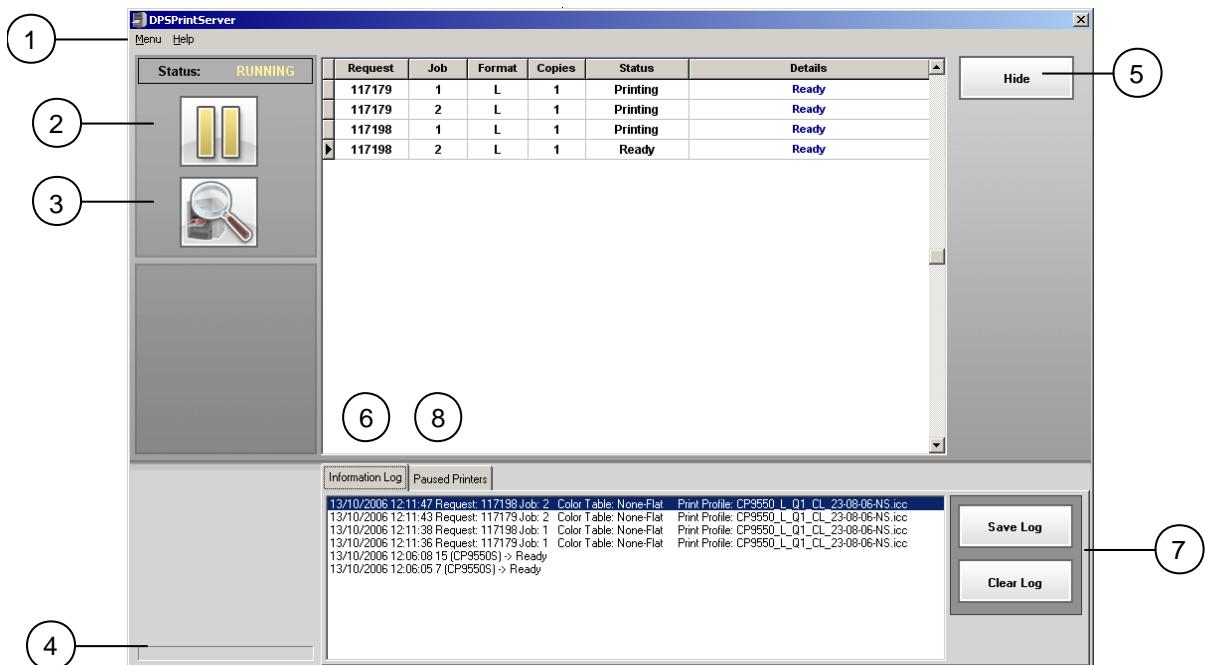
The DPS PrintServer module performs the instant print function for the DPS system, and releases the system from managing and sending information through the USB bus.

Some relevant DPS PrintServer issues:

- It can find and manage any Mitsubishi printer attached to the system. You can obtain information about its status (out of paper, number of copies remaining, printer door open, printing, etc...) at any time.
- It can manage any instant print format accepted by the printers (10x15/6x4, etc...)
- It applies very good ICC profiles to obtain the best printing results for each kind of printer.
- It manages the queue of images to be printed, to obtain maximum performance.
- It can be configured for speed printing (any available printer will accept any job) or be configured for order printing (images are assigned to specific printers for those images to be ordered by input time).

### 1.1 Main screen

The DPS PrintServer main screen will appear, showing the list of orders and jobs being sent to the printer and the status of each one.



### 1.1.1 Descriptors

The following functions are available on this screen.

**(1) Menu**

Click here for access to different actions and configuration screens.

**(2) Pause button**

Switches from “pause” to “play”. The button displays the status being switched to when clicked. Use it to stop and restart the print queue.

**(3) Search Printers**

This button explores the ONLINE printer status.

**(4) Progress panel**

Shows the job being processed and the printer to which it is being sent.

**(5) Hide**

Hides PrintServer.

**(6) Log Panel**

All communication issues with the printer are shown in this panel.

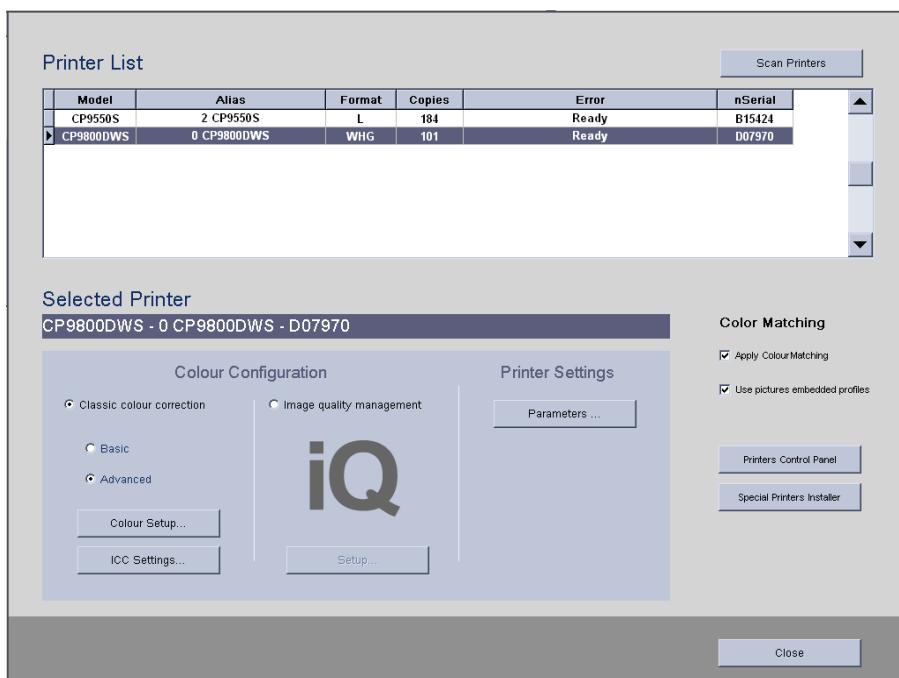
**(7) Log Buttons**

The log panel can be cleared or saved to a file from these buttons.

## 1.2 Search printers screen



Click on this icon to reach the ‘Detected Printers List’ screen. The main purpose of this screen is to show the connected printers and other important information about them.



From this list, the operator can check the **Model** of the printer, the **Alias** assigned to the printer (Name for recognising the printer), the **Format** (Paper size), the remaining **Copies** of the printer (if available), and the **Status** and the internal identification code of the printer (**nSerial** code).

This information cannot be changed manually. The system automatically detects these parameters (except for Alias).

The “Printers Control Panel” button gives access to the windows printer printing settings for the printer model CP3800.

The “Special Printer Installer” starts the installation process of CP3800 printers.

For setting up CP3800 printers refer to the installations documentation.

**NOTE**

Some printers cannot give information about the remaining paper, so “999” will be displayed.

### 1.2.1 Status messages

The operator will take action according to the status information:

- **If there is no printer detected (no information can be checked)**

Press the ‘Scan Printers’ button to make the DPS PrintServer search for printers. Wait for 10/15 seconds.

If no printer is detected, follow these steps:

1. Check that LEDs on the front panel of the printer are On and Ready.
2. Check that the printer is properly connected (USB and power supply cables).
3. Restart the printer.
4. Restart the DPS system.

- **Ink.../Paper.../Cassette.../Jam.../etc..**

They are caused by problems with the consumables kit. Remove the paper and/or ink and make sure it is properly inserted into the printer.

- **Overheating**

The printer is in safe self-pause mode due to head overheating. Wait for 30 seconds and the printer will start to work again once it has cooled down.

- **Open door.**

The printer door is open.

- **Wrong Print Size.**

The paper media is different to the format chosen. Check that the type of paper media inserted and the print format are the same.

### 1.2.2 Supported printers

CP9600 Series

CP9550 Series

CP3020 Series

CP9500 Series

CP9800 Series

CP3800 Series

CP9820 Series

CP70 Series

CP707 Series

MPU

Canon Plotter Series

### 1.2.3 Supported formats

Format name - cm - inches	CP95XX Series	CP9600 Series	CP98XX Series	CP3020 Series	CP3800 Series	Plotter Series	CP70/70 7 Series
A4 - 20X25 - 8X10	X	X	X	✓	X	X	X
A4H - 20X25 - 8X10	X	X	X	X	✓	X	X
LA4 - 20X30 - 8X12	X	X	X	✓	X	X	X
LA4H - 20X30H - 8X12H	X	X	X	X	✓	X	X
L - 10X15 - 4X6	✓	✓	✓	X	X	X	✓
LH - 10X15H - 4X6H	X	✓	X	X	X	X	X
LHG - 10X15HG - 4X6HG	X	X	✓	X	X	X	X
M - 9X13 - 3.5X5	✓	✓	✓	X	X	X	✓
MH - 9X13H - 3.5X5H	X	✓	X	X	X	X	X
MHG - 9X13HG - 3.5X5HG	X	X	✓	X	X	X	X
W - 15X23 - 6X9	✓	✓	✓	X	X	X	✓
WH - 15X23H - 6X9H	X	✓	X	X	X	X	X
WHG - 15X23HG - 6X9HG	X	X	✓	X	X	X	X
W10 - 10X15(x2) - 4X6(x2)	✓	✓	✓ <sup>1</sup>	X	X	X	✓
W10H - 10X15(x2)H - 4X6(x2)H	X	✓	X	X	X	X	X
W10HG - 10X15(x2)HG - 4X6(x2)HG	X	X	✓ <sup>1</sup>	X	X	X	X
W11 - 11.5X15(x2) - 4.4x6(x2)	✓	✓	✓ <sup>1</sup>	X	X	X	X
W11H - 11.5X15X(x2)H - 4.4x6(x2)H	X	✓	X	X	X	X	X
W11HG - 11.5X15X(x2)HG - 4.4x6(x2)HG	X	X	✓ <sup>1</sup>	X	X	X	X
W13 - 13X18W - 5X7W	✓	X	✓	X	X	X	✓
W13HG - 13X18WHG - 5X7WHG	X	X	✓	X	X	X	X
W20 - 15X20 - 6X8	✓	✓	✓	X	X	X	✓
W20H - 15X20H - 6X8H	X	✓	X	X	X	X	X
W20HG - 15X20HG - 6X8H	X	X	✓	X	X	X	X
W21 - 15X21 - 6X8.5	✓	✓	✓	X	X	X	X
W21H - 15X21H - 6X8.5H	X	✓	X	X	X	X	X
W21HG - 15X21HG - 6X8.5HG	X	X	✓	X	X	X	X
X - 13X18 - 5X7	✓	✓	✓	X	X	X	✓
XH - 13X18H - 5X7H	X	✓	X	X	X	X	X
XHG - 13X18HG - 5X7HG	X	X	✓	X	X	X	X
PLT - PLOTTER	X	X	X	X	X	✓	X
LLT - 40X60 - 15x24"	X	X	X	X	X	✓	X
NLT - 30X60 - 12x24	X	X	X	X	X	✓	X
RLT - 40X30 - 15x12	X	X	X	X	X	✓	X
W15H - 20X15(x2)H - 8X6(x2)H	X	X	X	X	✓	X	X
WL3H - 20X10(x3)H - 8X4(x3)H	X	X	X	X	✓	X	X
WLH - 20X10(x2)H - 8X4(x2)H	X	X	X	X	✓	X	X
WXLH - 20X13(x2)LH - 8X5(x2)LH	X	X	X	X	✓	X	X
WXH - 20X13(x2)H - 8X5(x2)H	X	X	X	X	✓	X	X
W76 - 15X7.6(x3) - 6X3(x3)	✓	X	✓ <sup>1</sup>	X	X	X	X
W76HG - 15X7.6(x3)HG - 6X3(x3)HG	X	X	✓ <sup>1</sup>	X	X	X	X

L51 - 15X5.1(x2) - 6X2(x2)	✓	X	✓ <sup>1</sup>	X	X	X	X
L51HG - 15X5.1(x2)HG - 6X2(x2)HG	X	X	✓ <sup>1</sup>	X	X	X	X
W55 - 15X5.5(x4) - 6X2.2(x4)	✓	X	✓ <sup>1</sup>	X	X	X	X
W55HG - 15X5.5(x4)HG - 6X2.2(x4)HG	X	X	✓ <sup>1</sup>	X	X	X	X
A5 - 15X20 - 6X8	X	X	X	X	X	X	✓
W10A5 - 10X15(x2)_A5 - 4X6(x2)_A5	X	X	X	X	X	X	✓
W13A5 - 13X18W_A5 - 5X7W_A5	X	X	X	X	X	X	✓

<sup>1</sup> When the printer is an MPU multi-cut formats are not supported.

#### 1.2.4 Published print sizes

It's possible to enable or disable the print sizes supported by the software. This means that the software only will print using the resulting list. This chart is available at Menu/Settings/Published Printsizes

The operator can always come back to change any of these parameters.

This helps to minimize the lists that are shown in different places of our applications and also the different related products, saving time and efforts to configure all of them.

By default, all the formats are enabled. It's highly recommended to disable entirely some groups if the system is not going to use them, like HG media, Standard media, CP3020, Plotter, and so on.



#### IMPORTANT

For enabling the CP9600 exclusive formats, the option "exclusive formats" in the CP9600 printer parameters section of DPSPrintserver must be checked.

#### NOTE

By default, the Plotter and CP9600 exclusive formats are disabled.

### 1.2.5 Matte overcoat option

In the next text box, it is possible to view the relation between different printer models and Matte overcoat.

PRINTER MODEL	MATTE
CP95XX Series	X
CP9600 Series	X
CP98XX Series	✓(*)
CP3020 Series	X
CP3800 Series	X
MPU	X
Plotter Series	X
CP70 / CP707 Series	✓

(\*)**NOTE**

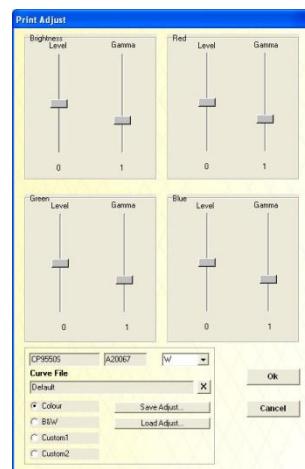
This option is compatible only with printers model **MITSUBISHI CP9820DW Series**, and format print **HG** and **Superfine** quality selected.

## 2 Printer Configuration

There are different adjustable parameters available on the Search Printers Screen. Printers are factory-adjusted by default and the system is already configured to obtain a good printing quality. However, in order to achieve the best quality possible it is necessary to adjust some parameters and perform some periodical calibrations.

### 2.1 Colour Configuration

There are two configuration modes which can be applied on each printer individually: Classic colour correction and Image quality management. Classic mode allows you to configure standard printer parameters through legacy adjustment screens. The available adjustments with classic colour correction are fine, but it is highly recommended to use the new Image quality management system, since it represents a forward step in colour managing and printing consistency comparing to the classic mode.



#### 2.1.1 Classic colour correction

Access this screen by pressing the 'Explore' button or by selecting Menu > Settings > Printers

- **Basic**

Select Basic and click 'Colour Setup'. The colour components can be fine-tuned separately (R,G,B) or together (Brightness)

- 'Level' adjusts the colour saturation
- 'Gamma' adjusts the middle tones

Each printer can be adjusted individually and can be optimised for colour or for black & white pictures. It's also possible to define two more custom optimizations: Custom1 / Custom2. Different profiles can also be saved / loaded.

**NOTE**

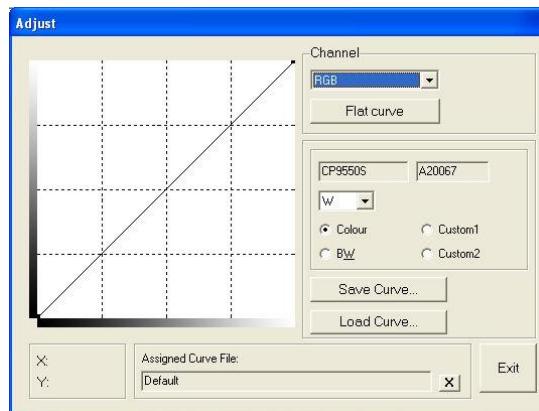
B&W, Custom1 and Custom2 optimisations are not applicable to DPSKiosk

- **Advanced**

Select Advanced and click 'Colour Setup'. Colour components can be fine-tuned separately (R,G,B) or together (RGB)

Separate adjustments can be made at every point on the curve from shadows to highlights.

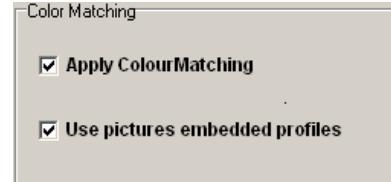
Adjustments can be made for each printer and each format individually, and they can be optimised for colour or for black & white pictures and optimize more options with the values Custom1 / Custom2. Different profiles can also be saved / loaded.



- **ICC Settings (Colour Matching, ICC Profiles)**

For best colour quality improvement, use Colour Matching.

Check 'Apply Colour Matching' option in 'Colour Matching' panel. If you want to use picture files embedded profiles, please also check 'Use pictures embedded profile'.

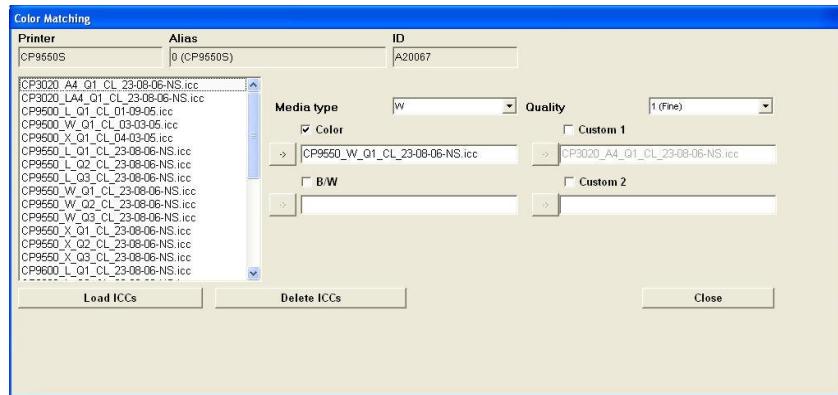


**NOTE**

Old Mitsubishi ICC profiles from DPS PrintServer versions prior to 5.6 are no longer supported. Use the new ones provided or contact Support if you had old specific ICC profiles.

From version 5.6, DPS PrintServer allows using standard ICC profiles as well as the new Mitsubishi ICC Profiles provided.

Select the printer you want to configure. Press the 'ICC Settings...' button in the 'Printer Settings' panel. This setting only affects the printer selected.



- ICC Profiles list.** With the list on the left, it's possible to manage the ICC profiles placed in the DPSPrintServer\ICCs folder. It's possible to add new profiles to the list by pressing 'Load ICCs' and selecting an ICC profile placed in another location. It's also possible to delete them from the list by pressing 'Delete ICCs'.
- Media Type.** Each media type can be configured with a different ICC profile. Be sure to configure at least the currently used media type.
- Quality.** Each print quality has a different colour contrast and intensity. Different ICC profiles must therefore be used.
- Colour – B/W.** Colour correction for colour or black & white images can be enabled and configured separately. Enabling Colour and disabling B/W is recommended. An ICC profile is assigned to the Colour mode of every media type and every quality by default.
- Arrow button.** Use this button to assign the selected profile from the ICC profiles list to Colour or B/W.

Please, refer to chapter 4 for more information about classic colour correction settings.

#### NOTE

All default ICC profiles will be applied in any new detected printer.

#### References:

Part of DPS PrintServer (Mitsubishi Electric Europe, B.V.) uses "Colour Science i2e Image Enhancement Technology".

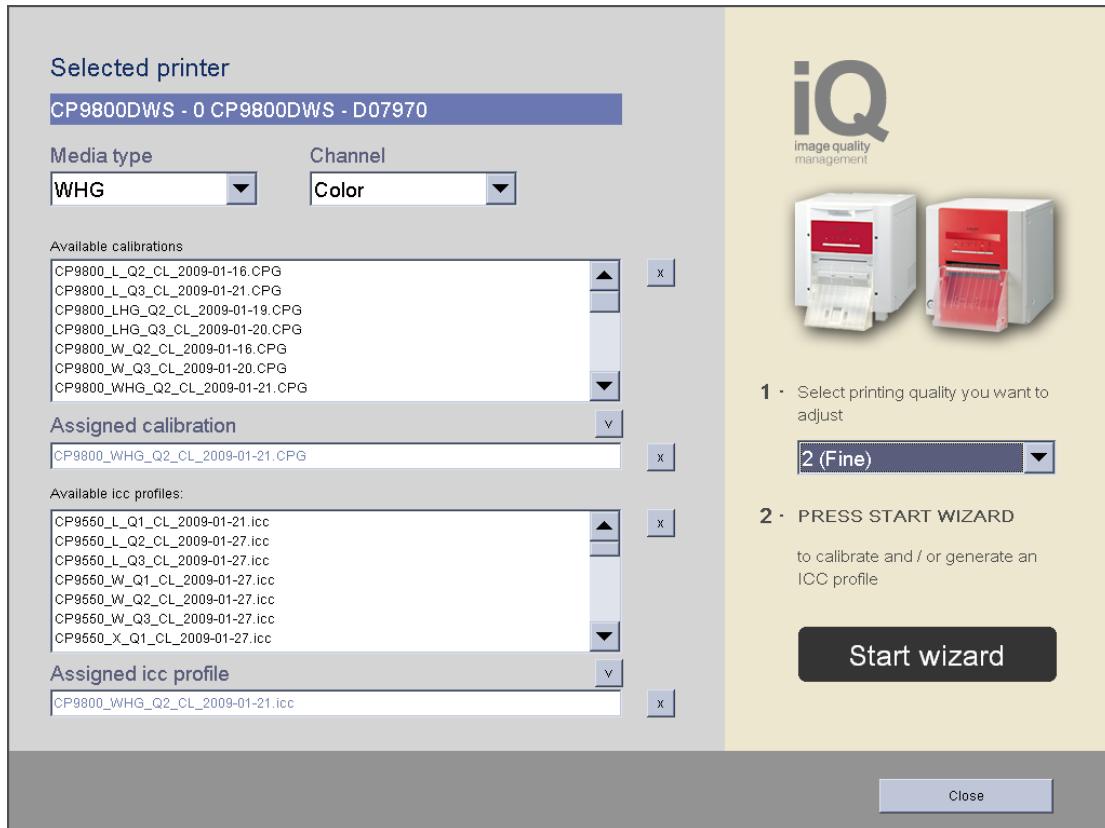
### 2.1.2 Image Quality Management (iQ)

Image Quality Management is a new concept of printer calibration and adjustment which makes possible to obtain the maximum quality in your prints.

Access this screen by pressing the 'Explore' button or by selecting Menu > Settings > Printers.

Then select 'Image quality management' and click 'Setup...' button to access iQ configuration screen.





On the left side are placed all the controls which allow configuring the different adjustments assigned to the printer. On the right side is placed the button to start a new iQ adjustment process. It is highly recommended not to change the configuration of the left side panel. The values are configured automatically when you perform a calibration or profiling process with your printer, and they are only intended for administration or advanced testing purposes.

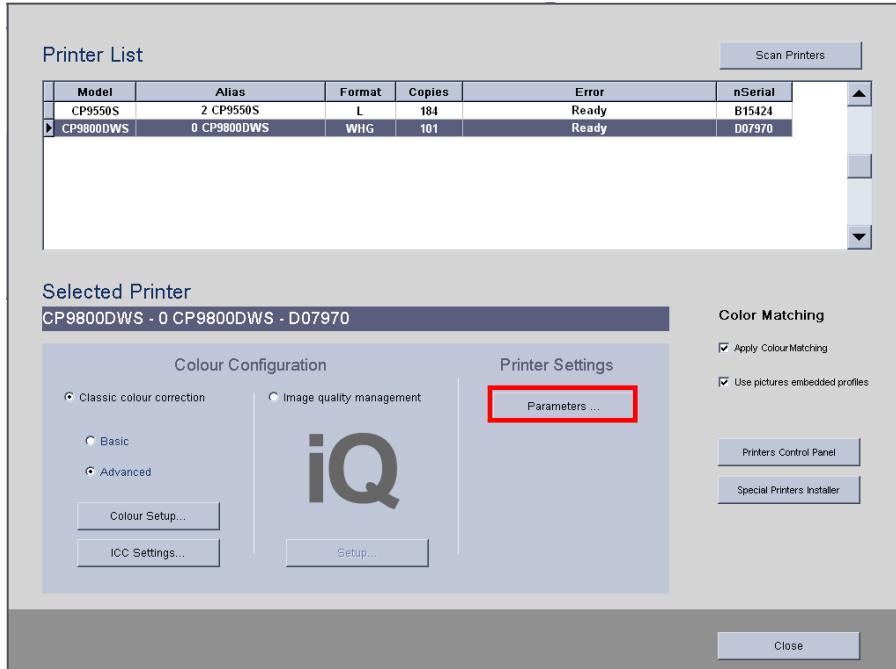
To start the iQ adjustment process, please, follow the steps on the right side: Firstly, select the quality you want to adjust, and then press the 'Start wizard' button.

A new screen will appear and will guide you through the process. To obtain fully detailed information about the iQ management system, please, refer to chapter 5.

## 2.2 Printer Settings

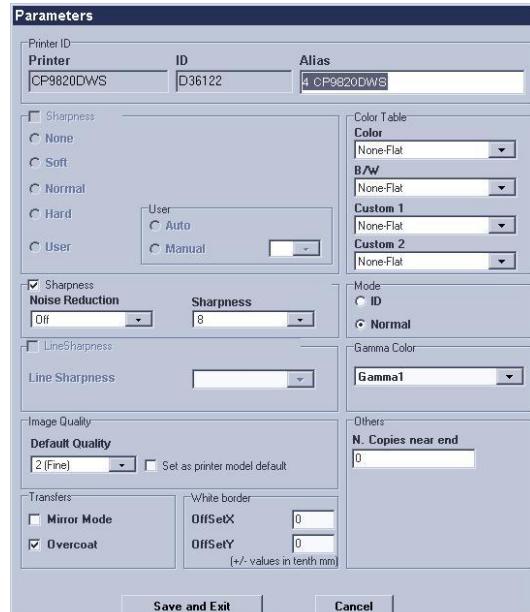
Printers are factory-adjusted. However, some working parameters can be adjusted.

Access this screen by pressing the Explore button or by selecting Menu > Settings > Printers.



If you select a printer and then click on "Parameters" you will be able to change some advanced printer options which can be used to fine tune adjustments or improve print quality.

- **Alias.** Change this to improve printer identification.
- **Sharpness.** Detail improvement. Recommended values:
  - CP9500DW-S: User – Manual - 6
  - CP9550DW-S: Noise:Off Sharpness:4
  - CP9600DW-S: Noise: Off Sharpness:4
  - CP9800DW-S: Noise:Off Sharpness:8
  - CP9820DW-S: Noise:Off Sharpness:8
  - CP70/CP707: Noise: Off Sharpness:4
  - CP3800D: Not available
  - CP3020D: Not available
- **Image Quality.** The default print mode of the printer which is being configured. This quality level is used when no image quality is specified by the sender application. Improved quality involves a higher quality of image and colour, but also a slower printing speed.
- **Gamma Colour.** Colour depth adjustment. Leave the default values if you are using ICC profiles.
- **Colour Tables.** The recommended configuration is None-Flat and it is the correct option to use with ICC profiles (default).



- **Number of copies near end** will generate an incident when reaching the configured number.
- **Save and Exit** to apply changes.
- **Exclusive Formats.** Activating this option CP9600DW-S will work with its own formats. This helps to avoid CP9600DW-S printing standard 10x15 cm (6x4 inc) or 15x23 cm (6x9 inch) sizes when the printer is attached to a system together with other printers like CP9500DW-S also using that media size. Due to HIGH QUALITY and SLOW SPEED of CP9600DW-S printer, it is preferable to reserve this printer for special jobs like Studio pictures, where high quality is a must. When this option is checked and the user wants to send a request to that printer, special paper size must be chosen from the list of available paper size 10x15 cm (6x4 inc) or 15x23 cm (6x9 inch).
- **Mirror Mode.** Activating this option the image will be inverted (from left to right), producing a mirror effect. This option is deactivated by default.
- **Overcoat.** This option enables the printing of an overcoat layer on the picture. It is activated by default.
- **White border.** This option is used to adjust the position of the picture over the white border when this option is selected to print pictures. This is useful when the print out of the printer is slightly shifted respect the upper/lower or right/left edges.

The target is to have the same thickness of white border for all sides. This value is settable in fractions of 0.1 millimetres and can also be positive or negative.

The default values are usually the best, but the operator can vary these parameters to improve the performance of the printer on a printer-by-printer basis.

**NOTE**

Do not change the Colour Table unless ICC profiling applies.

In this case, 'Flat' or 'No tables' will be automatically selected

**NOTE**

For CP9550DW (A) choosing FineDeep image quality, will make the printer print in SuperFine mode

**Restrictions:**

With the format 10x15x2 based on paper-cut, white edge cannot be implemented.

When a plotter printer is selected, the "Parameters" screen shows special configuration options that only apply to the plotter.

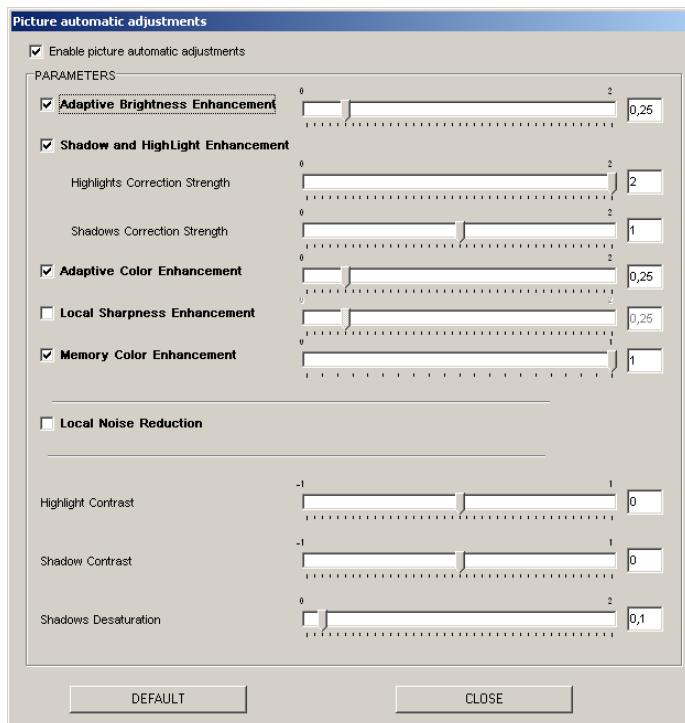
- **Advanced interpolation.** This option allows resizing the plotter images for the format PLOTTER. This option is disabled by default.
- **Max MegaPixels.** This option allows specifying how many megapixels will be used when resizing to format PLOTTER. It is only applied when advanced interpolation is activated.

## 2.3 Picture automatic adjustments

Picture automatic adjustments applies changes to specific parts of the image. It is useful to enhance highlights and shadows, colours, etc.

To apply automatic adjustments, a configuration screen accessible from the main screen has been created. Go to Menu - Settings - Picture Automatic Adjustments to open the configuration menu.

Each one of the automatic adjustments options can be individually activated or deactivated. Moreover the impact of each one of the parameters on the image can be modified. The application is configured to improve the pictures aspect, although it is possible to adjust the configuration in order to get best results.



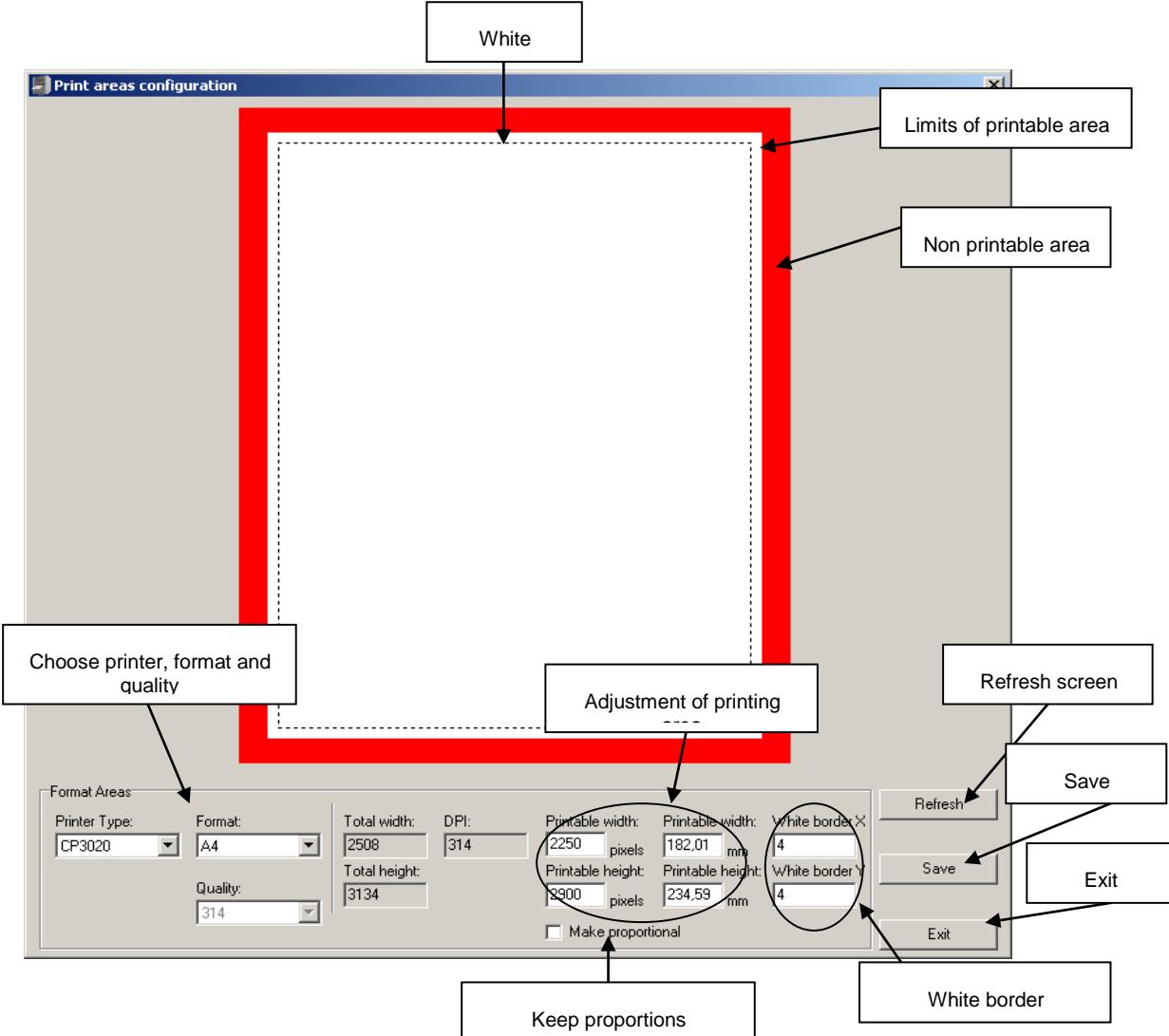
- Enable picture automatic adjustments
- Adaptable brightness enhancement: This option enables the use of shadow and Highlight enhancement.
- Shadow and highlight enhancement: this option enables highlights correction strength and Shadows Correction Strength options.
- Adaptable colour enhancement
- Local sharpness enhancement
- Memory colour enhancement
- Local noise reduction
- Highlight contrast
- Shadow Contrast
- Shadow desaturation

"DEFAULT" button restores default factory values.

*Note: Certain parts of Mitsubishi Electric DPS PrintServer have been created using "Colour-Science i2e Image Enhancement Technology."*

## 2.4 Print Areas

In this section is possible to set the default parameters of real print area and white border



dimensions depending on printer model (and printing quality in some cases).

The final picture data being sent to the printer is always slightly bigger than the real print area size, in order to compensate possible deviations of the thermal head position respect the paper position. This helps to ensure that, even when the paper is slightly shifted to one side, there's not any edge of the paper without picture information being printed.

By default, the print area is equal to the picture data dimension in terms of pixel size. (width and height). This data ('Printable width', 'Printable Height') can be adjusted in this screen.

Also the dimensions of the white frame for white border prints can be adjusted here.

### NOTE

It's possible to adjust different offset per each printer of the same model being installed in the same system, but not in this screen. It's required to access to the individual printer parameter menu and change horizontal and vertical offset. This is useful when printers of the same model are showing differences between their respective printing position offsets.

### IMPORTANT NOTE

Cutting formats (10x15x2, 11'5x15x2) do not support white border

When printers or format are chosen, changes must be saved or cancelled.

**NOTE**

If cutting formats are modified (10x15x2 ; 11'5x15x2) the composition file must be modified for optimal results.

## 3 General settings

These parameters control the behaviour of the PrintServer.

There are some of them that are general for every printer and others applied only to the MPU Sorter.

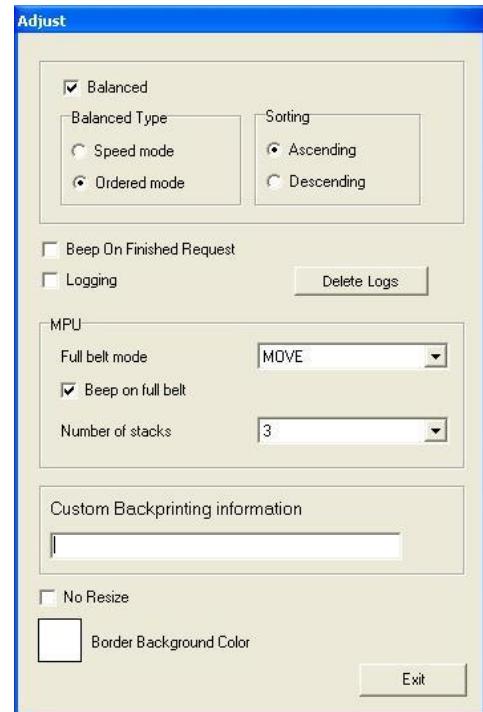
Please refer to chapter 6 for further information about MPU Sorter unit.

### 3.1 Adjust

Access this screen by selecting Menu > Settings > Adjust

#### 3.1.1 **Balanced**

This is the default configuration used if no 'Balanced' mode is specified in the requests sent. If checked, the jobs in a request are sent to printers that can print the selected format. Otherwise, all jobs will be sent to one of the printers that supports the format.



#### 3.1.2 **Balanced Type (Speed Mode)**

DPS Print Server sends any order to the first printer available. This increases the printing speed, but the printing order is lost.

#### 3.1.3 **Balanced Type (Order Mode)**

A set of ordered printing jobs are assigned to each available printer. Instant prints are ordered, but speed is lost (because an available printer could not be assigned in order to prevent the order being lost).

#### 3.1.4 **Sorting**

Whenever the print queue is ready to print, this option will reverse (Descending) or not (Ascending) the printing order. This option is useful for copies to land on the print tray in reverse order.

#### 3.1.5 **Beep on finished request**

If checked, a sound will be played when a request finishes printing.

#### 3.1.6 **Logging / No resize**

These parameters are for technical purposes. Please leave them unchecked.

### 3.1.7 Full belt mode

This setting only applies to MPU unit, it indicates what is the action that the application must do when a stack has reached the end of the belt. The values can be:

- STOP: PrintServer will stop printing with MPU till the stack is removed from the belt by the operator (only the stack over the sensor it's needed to be removed).
- MOVE: PrintServer will move the belt so the first stack will fall at belt tray.

### 3.1.8 Beep on full belt

This setting only applies to MPU unit, when checked PrintServer will emit a sound when a stack has reached the belt end.

### 3.1.9 Number of stacks

This setting only applies to MPU unit. It allows configuring the number of the MPU output stacks on the belt.

### 3.1.10 Custom backprint information

See MPU related information in this manual further on.

## 4 Classic colour correction settings

This chapter refers to the classic colour corrections. It is highly recommended to use the new iQ Image quality management system (refer to chapter 5) instead classic settings. However, the system is predefined in classic colour correction in order to allow backward compatibility and it is possible to keep using the classic system instead.

It is important to take into consideration that old Easy Colour Adjustments have been removed from the Classic colour correction options because they have been embedded on the new iQ Image quality management system as the new concept "Visual Calibration". (Please, refer chapter 5 for more details).

In Classic colour correction mode, after the printer is detected, some colour and quality set-up can be carried out. A choice between using CPD colour adjustment files or ICC profiles is possible. It is very important to set up the system according to your choice.

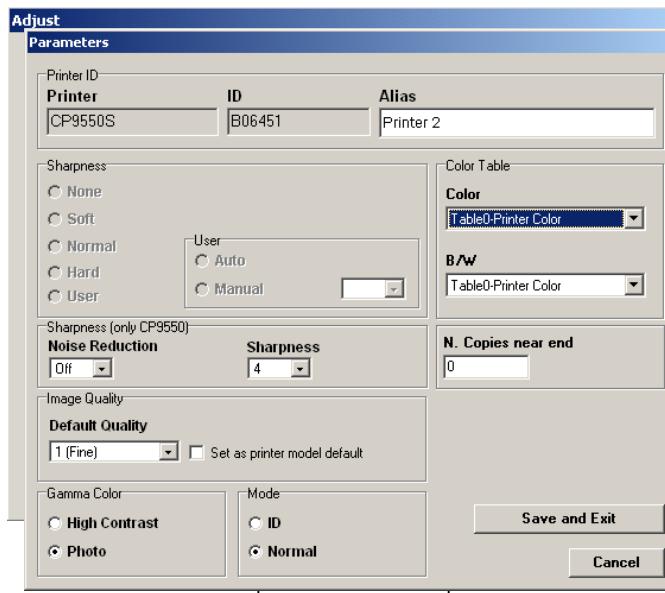
ICC profiles are automatically applied to each printer and it is the default Mitsubishi recommended configuration.

### IMPORTANT NOTE – ICC COMPATIBILITY

Now DPS PrintServer supports standard ICC profiles and special Mitsubishi ICC profiles. Mitsubishi ICC profiles follow a new design and are not compatible with the old ones, so, ICC profiles from older versions than DPS PrintServer 5.6 are not longer compatible.

### 4.1 CP9550DW-S/CP9600DW-S/CP9800DW-S/DP9820DW-S/CP70/CP707 using CPD file

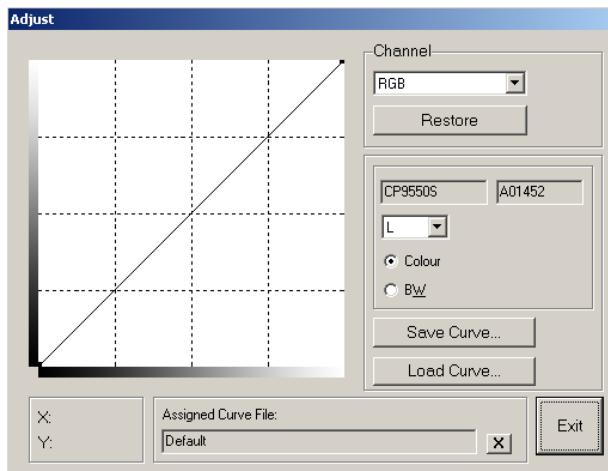
1. Check Colour Correction group has the 'Advanced' option checked.
2. Press the 'Setup' button.
3. Check that the CPD default curve for CP9550DWS is loaded. The grey curve is a guide if one is needed to make small adjustments, in order not to stray too far from the current standard CPD adjustment for the printer.
4. Press the 'Exit' button.
5. Press the 'Parameters' button on the 'Detected Printer list' to show this form.



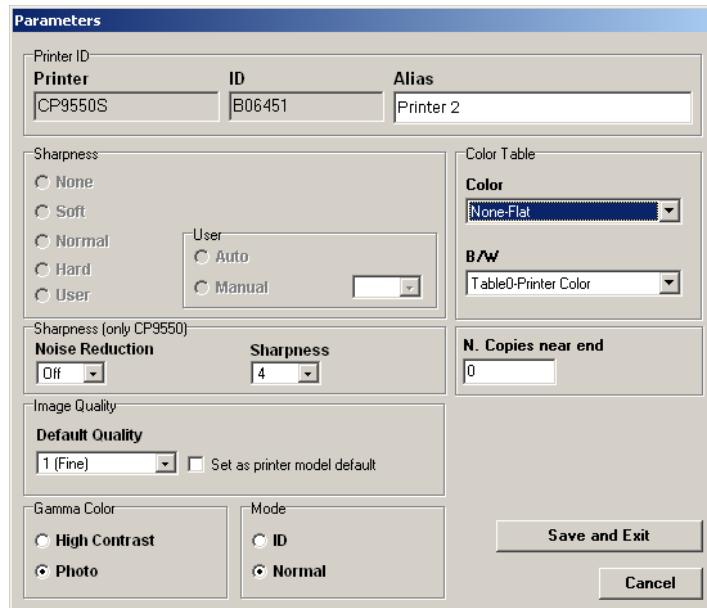
- a. In the 'Colour Table' group in the 'Colour' drop-down list box, select the 'Printer Colour' option. Do not use the 'Flat' colour table. The convention of these names depends on the printer model.
- b. In the 'B/W' drop-down list box, always leave the 'Printer Colour' option selected.
- c. Set 'Noise Reduction' to 'off'.
- d. Set 'Sharpness' to 4.
- e. Set 'Superfine mode' to 'off'.
- f. Set 'Gamma Colour' to 'Photo'.
- g. Set 'Mode' to 'normal'.
6. The 'Apply Colour Matching' option in the 'Colour Matching' panel must be unchecked.

## 4.2 CP9550DW-S/CP9600DW-S using ICC profile

1. Check that the Colour Correction group has the 'Advanced' option checked.
2. Press the 'Set-up' button.
3. Check that NO CPD curve is loaded. The Flat line must be selected.
4. Press the 'Exit' button.



5. Press the 'Parameters' button on the 'Detected Printer list' to show the Parameters form.
  - a. Select the 'Flat' option in the 'Colour Table' group in the 'Colour' drop-down list box. Do not use the 'Printer Colour' colour table. The full option naming convention depends on the printer model.
  - b. In the 'B/W' drop-down list box, leave the 'Printer Colour' option, if there is no special colour profile for that option.



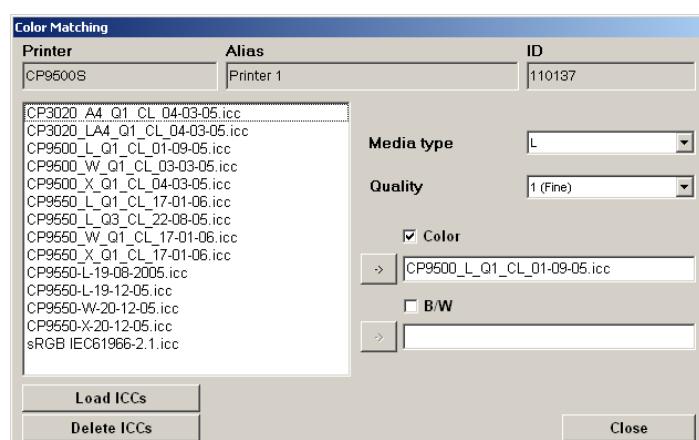
- c. Set 'Noise Reduction' to 'off'.
- d. Set 'Sharpness' to 4.
- e. Set 'Superfine mode' to 'off'.
- f. Set 'Gamma Colour' to 'Photo'.
- g. Set 'Mode' to 'normal'.

6. Check the 'Apply Colour Matching' option in the 'Colour Matching' panel. If you want to use picture files embedded profiles, also check 'Use pictures embedded profile'.



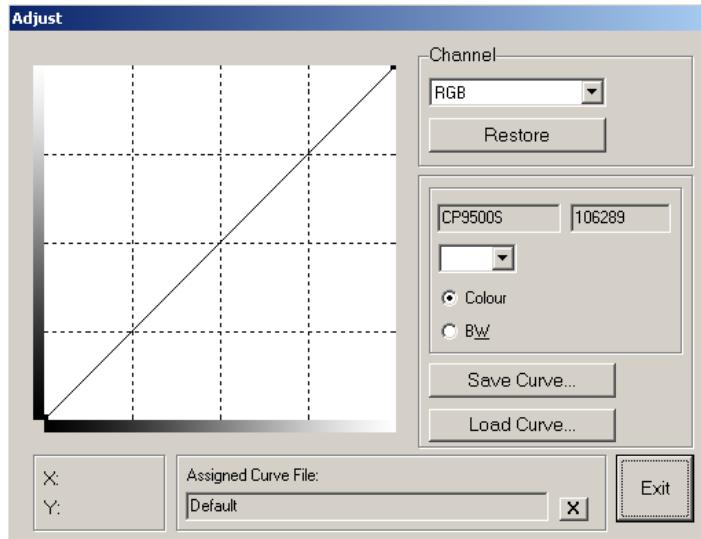
7. Press 'ICC Settings...' button on the 'Printer Settings' panel. On list on the left, you have the previously loaded profiles.

- a. Select 'Media Type' and the desired Quality.
- b. Check the 'Colour' option.
- c. The ICC profile on the left must be assigned using the arrow button.
- d. The B/W option must be left unchecked if there is no special colour profile for that option.

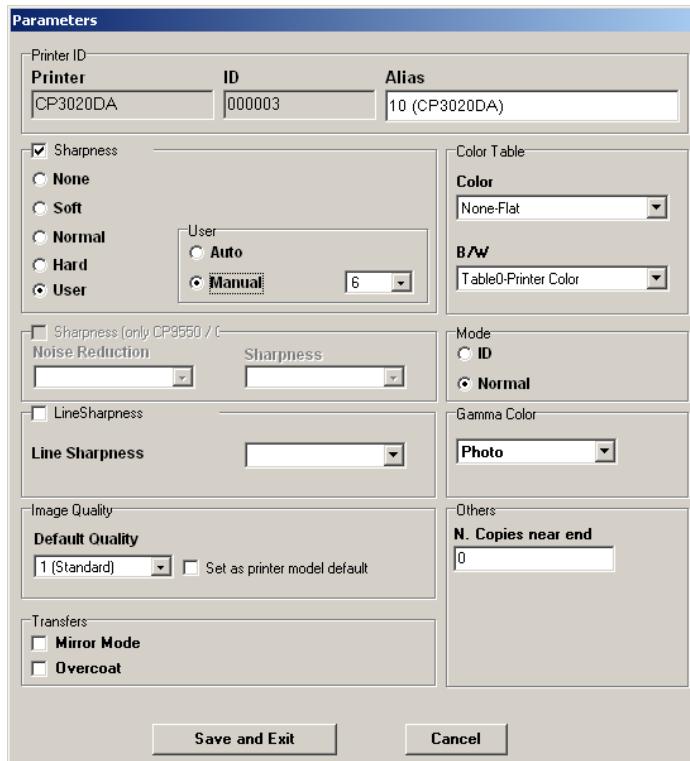


### 4.3 CP9500DWS/CP3020DW using CPD files

1. Check that the Colour Correction group has 'Advanced' option checked.
2. Press the 'Set-up' button.
3. Load or 'draw' the CPD curve that you need.
4. Save the new curve if needed and press the 'Exit' button.



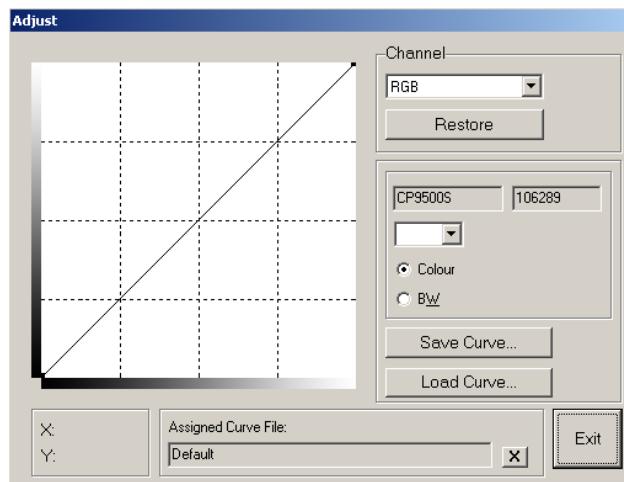
5. Press the 'Parameters' button on the 'Detected Printer list' to show the Parameters form.
  - a. In the 'Colour Table' group, in the 'Colour' drop-down list box, select the 'Printer Colour' option. Do not use the 'Flat' colour table. These convention of these names depends on the printer model.
  - b. In the 'B/W' drop-down list box, always leave the 'Printer Colour' option selected.
  - c. Set 'Sharpness' to 'User' and 'Manual' to 6.
  - d. Set 'Gamma Colour' to 'Photo'.
  - e. Set 'Mode' to 'normal'.



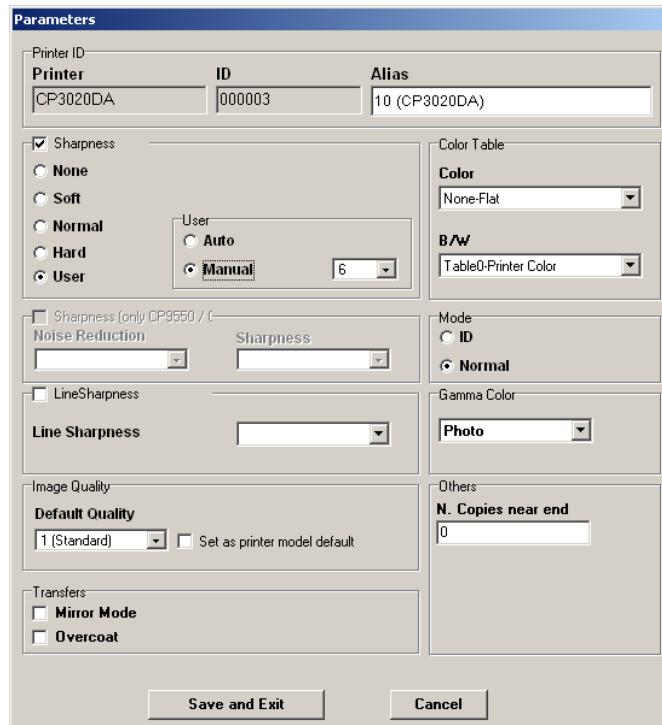
6. The 'Apply ColourMatching' option in 'Colour Matching' panel must be unchecked.

#### 4.4 CP9500DWS/CP3020DW using ICC profiles

1. Check that the 'Advanced' option checked in the Colour Correction group.
2. Press the 'Set-up' button.
3. Check that NO CPD curve is loaded. Flat line must be selected.
4. Press the 'Exit' button.



5. Press the 'Parameters' button on the 'Detected Printer list' to show the parameters form
  - a. In the 'Colour Table' group in the 'Colour' drop-down list box, select the 'Flat' option. Do not use the 'Printer Colour' colour table. The full option naming convention depends on the printer model.
  - b. In the 'B/W' drop-down list box, leave the 'Printer Colour' option if there is no special ICC profile for B/W pictures.



- c. Set 'Sharpness' to 'User' and 'Manual' to 6.
- d. Set 'Gamma Colour' to 'Photo'.
- e. Set 'Mode' to 'normal'.

## **4.5 A FINAL RECOMMENDATION**

Current ICC profiles are created using the printer's flat colour curves, in order to start with neutral corrections. They are not based in any CPD file.

Recommendation: DO NOT MIX Printer Colour curves or CPD files with ICC profiles.

Remember that each print size and print speed require different colour profiles.

## 5 Image quality management iQ

Image Quality Management or, iQ management, is a new way to adjust and calibrate printers to obtain the best colour reproduction and consistency.

The system is based on a wizard that guides the user to calibrate each printer-paper-quality combination. Calibration requires printing some patterns in order to use them during the adjusting process.



In order to use the maximum capabilities of the printers, the user should obtain an Eye-One calibrator device. However, the Eye-One device is not essential to get a good colour reproduction. Please, contact your dealer for further information.

There are two main steps on the iQ process:

1) Calibration.

Calibration helps to keep a regular response of the printer thermal head through the whole range of light intensity. Also helps to get the most of the thermal head dynamic range. A good calibration will result in perfect grayscale tones, without colour casts.

Calibration can be performed with an Eye-One device or through a visual system. Eye-One calibration is the best way to calibrate objectively the printer and obtain the best results. The visual calibration system uses the same method as the former Easy Colour Adjustment technology, which has been improved and included in the iQ management process.

2) Profiling

Profiling process, applied over a calibrated printer, helps to improve colour reproduction accuracy, whatever the darker or brighter the colour is. The ICC profiles transform original picture colour to a common colour space (sRGB).

### 5.1 Eye-One Calibration kit

The Eye-One calibration kit includes an i1Pro spectrophotometer. It is a fast, handheld, colour measurement device which measures the full visible spectrum of the light reflected from colour samples and it is used for monitor and printer profiling/calibration.

It also includes a special support for measurement and a special accessory for monitor profiling.

For monitor profiling, please install the software provided on the CD. And follow the documentation provided with the kit. For printer calibration it is not necessary to install any additional software.



### 5.2 Working with Eye-One device

Eye-One calibration device connects with the system through USB cable. You will find the drivers on 'C:\Drivers\Eye-One'. For further information about installation, please refer the Eye-One installation document.

#### EYE-ONE USB CONNECTION ADVICE

Please, do not use front USB connection to connect Eye-One Device. Use any of free system rear USB connections instead.

Eye-One device is used by DPS PrintServer for printer calibration and profiling. To do so, several prints with colour patches have to be made. Then they have to be read with the device in order to obtain the required measurements for the printer adjustment.

### 5.2.1 Eye-One device parts

These are the most important parts of the Eye-One device:



The device has an operation button on the left side. This button has to be pressed for reading samples or for device calibration.

The white calibration tile is used only for the Eye-One calibration. The device must be placed over it and the button has to be pressed when prompted in the software. Then, Eye-One device will be calibrated and ready to use.

### 5.2.2 Eye-One operation

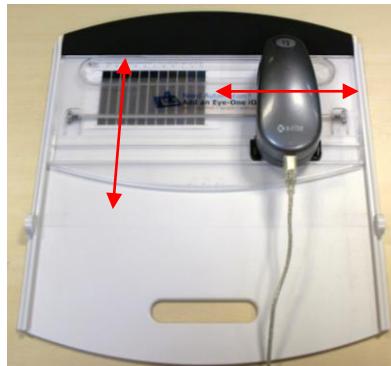
In this point it is explained how to read the printed patches with the Eye-One calibrator device, either you are calibrating or profiling your system. It is very important understanding it because this process will be assumed in the following chapter 5.3, where iQ management wizard will be explained.

After printing one or more patterns you will have to read them with the device. Please, repeat the following steps for each printed pattern:



device must slide freely in and the transparent plastic vertical direction. Make sure not too close to the left process must start on a white

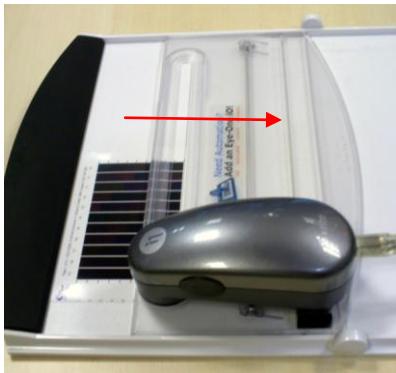
1. Put the printed target on the reading support as shown, attaching it with the upper black plastic support.



2. Put the Eye-One device on the black plastic slider support as shown. Eye-One horizontal direction guide must slide in the printed target is because the reading surface.



3. Slide Eye-One and transparent support to the top left, as shown. Eye one device must be placed aligned with the first row of patches and pointing to a white background on the left of the first patch. When prompted by the software, click on the Eye-One operation button and leave it pressed. Then, you will hear a "beep" signal (If you don't hear a beep signal, because maybe your system does not include internal speaker, just wait a couple of seconds). In this moment slide the Eye-One device horizontally to the right until reaching the end of the patches row. Try to move the reading device in a constant speed. With some practice you can read a 4x6 print in less than a minute (45-50 seconds).



4. Move down the transparent plastic sliding support, aligning the plastic support hole to the next row, and return the Eye-One device to the left as shown. Then repeat the process until finished.

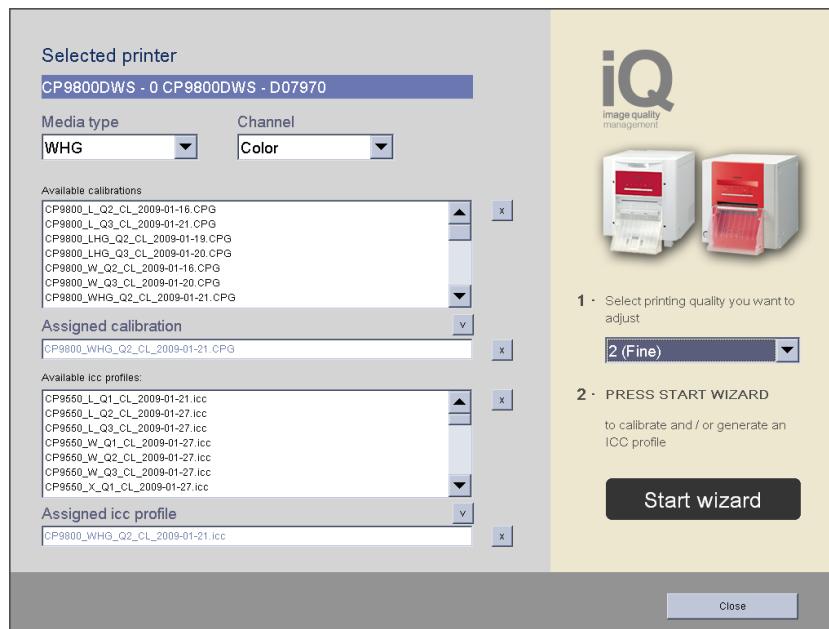
## 5.3 How to adjust the printer: iQ management wizard

iQ management wizard is the application that will guide you in the printer adjustment process.

If you are not satisfied with your printing quality / consistence, please follow the iQ management steps in order to adjust your printers. If you are satisfied with your printing quality and you have an Eye-One device you will be able to get even better quality. If you don't have an Eye-One device, use the wizard only if printing quality is not good, because the visual adjustment process is not so accurate.

Access the initial screen by pressing the 'Explore' button or by selecting Menu > Settings > Printers.

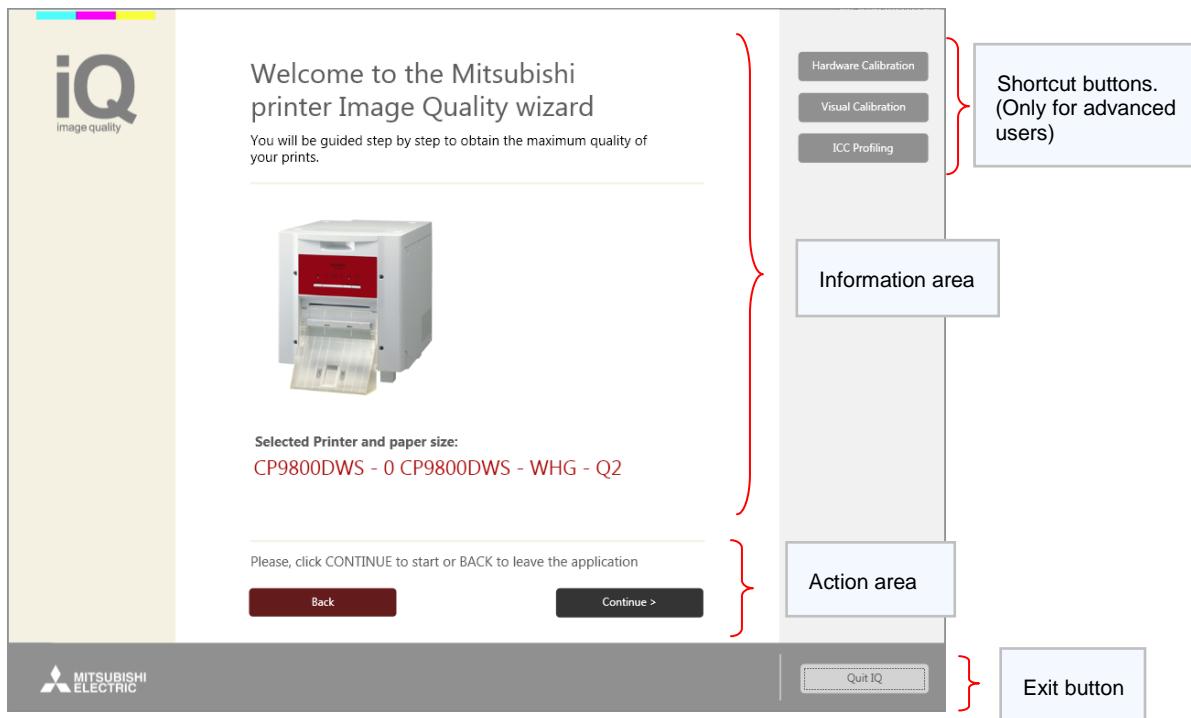
Then select 'Image quality management' and click 'Setup...' button.



Printer calibration will be performed with the installed media. To start the adjustment process, follow the steps on the right side of the screen.

Firstly, choose the printing quality, and secondly, press "Start wizard" button. It is very important to check that any of the printers installed is printing before continue. A message box will appear warning about it. Click "Ok" to continue.

Then, iQ wizard will be launched. It will guide you until the end of the process. The picture below shows the main elements you can find along the wizard steps.

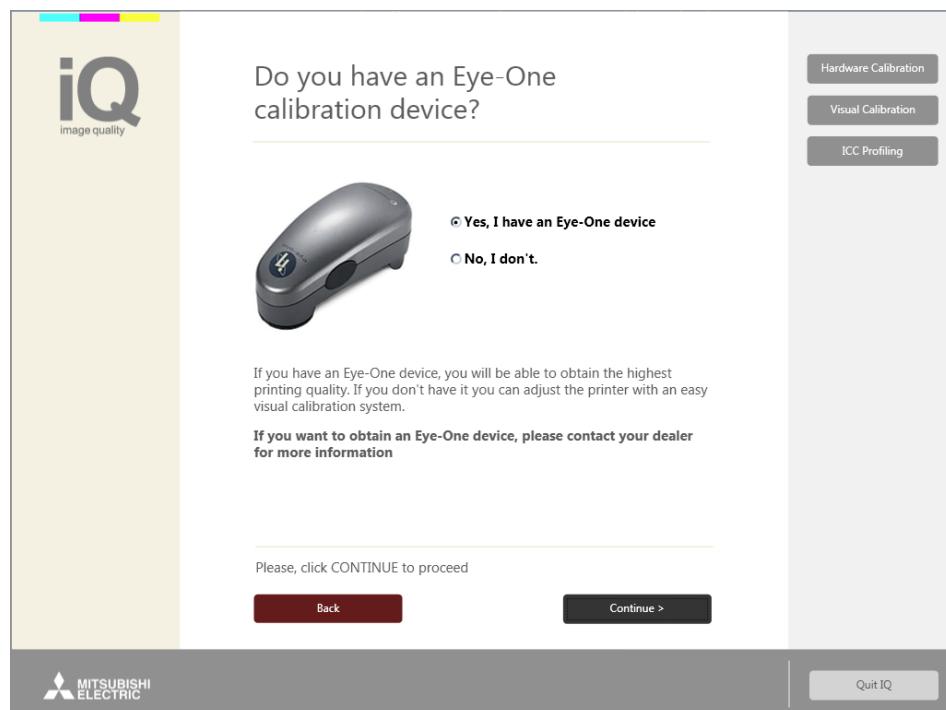


In the welcome screen you will find information about selected printer, paper and quality.

Click 'Continue' to go to the next step.

You will be asked whether you have or not, an Eye-One device. Choose the convenient option and click 'Continue'.

If you don't have an Eye-One calibration device, follow the next point 5.3.1. If you have an Eye-One device, please go to point 5.3.2.



### 5.3.1 Calibrating the printer

There are two ways to calibrate the printers. In case of having the Eye-One calibration kit please proceed with the calibration mode using Eye-One. Otherwise, proceed with visual calibration.

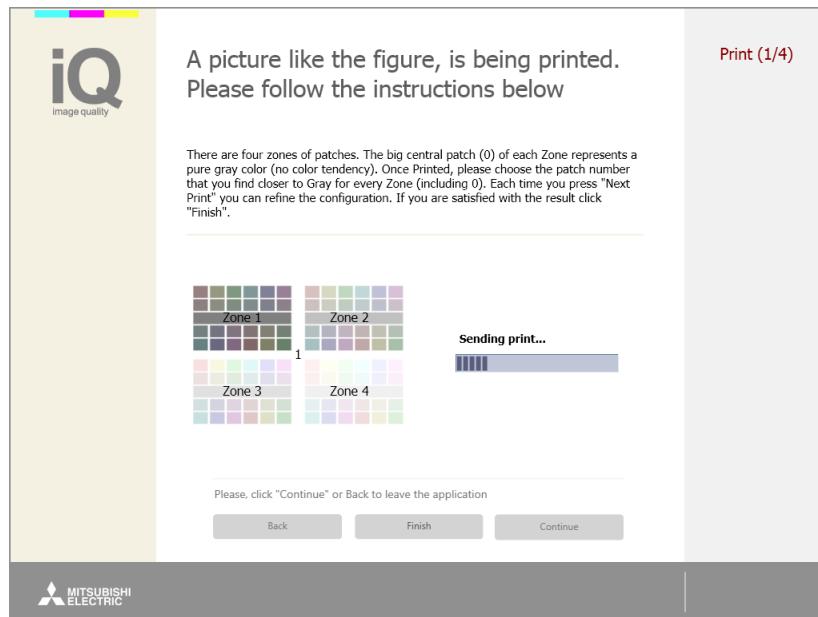
#### 5.3.1.1 Visual Calibration

##### NOTE

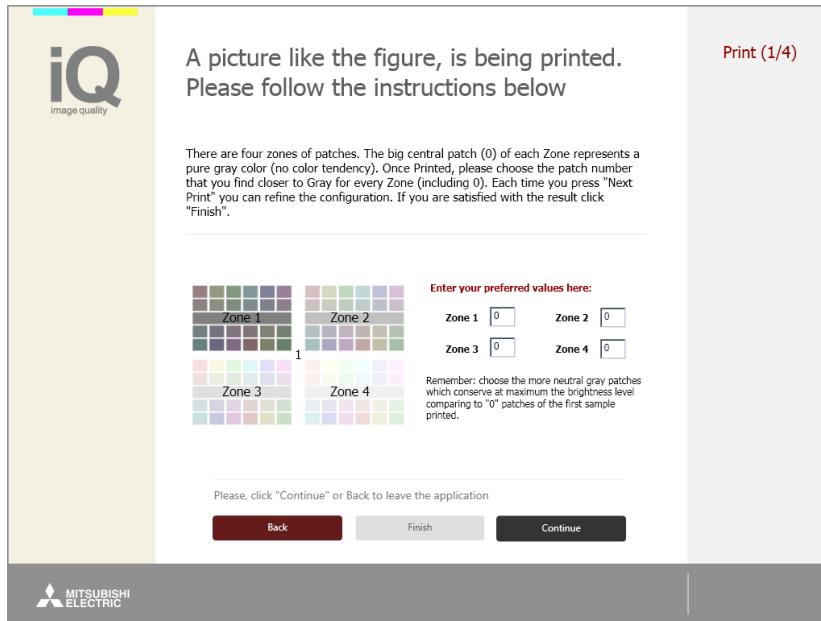
If you have an Eye-One calibration kit please go to the next chapter 5.3.1.2, which refers to the calibration using an Eye-One.

Start the calibration wizard and when you are asked whether you have or not an Eye-one device choose the option “No, I don’t”.

At the beginning of the wizard an image with a set of greyish patches will be printed, as shown in the figure, divided into four groups.



Once printed, select the most neutral grey box (with no colour cast) of each group (area) and enter the associated number in the corresponding boxes. In the first step is quite normal to leave the values to 0, since none of the patches are closer enough to the desired gray, but it will depend on the printer. Sometimes, leaving the values to 0 and pressing ‘Continue’ makes the decision easier by reducing the distance between patches.

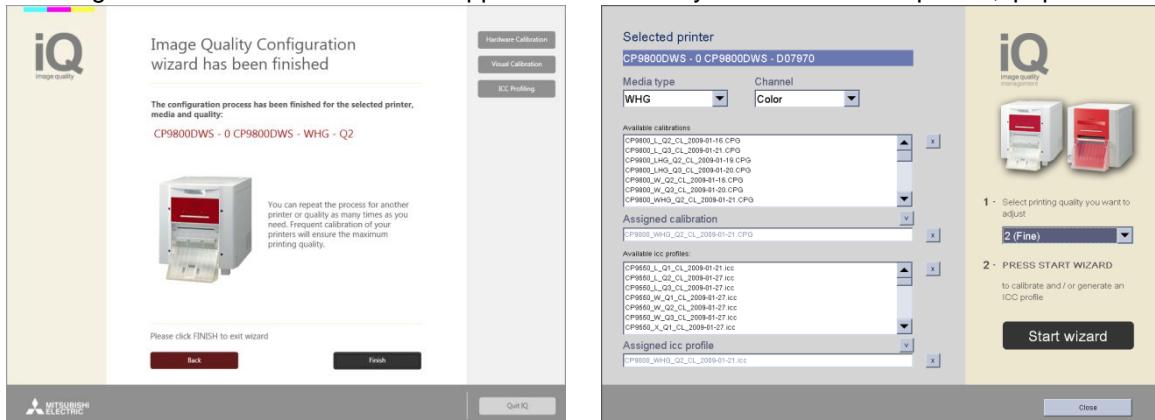


For further information follow on-screen instructions.

You can repeat the process up to four times to fine-tune the result by clicking "Continue" or, if you are satisfied with the result, you can press "Finish" at any time you want.

Then the final screen will appear. Click 'Finish' again to leave the iQ wizard. You will return to the previous configuration screen.

The generated calibration will be applied automatically to the selected printer, paper and

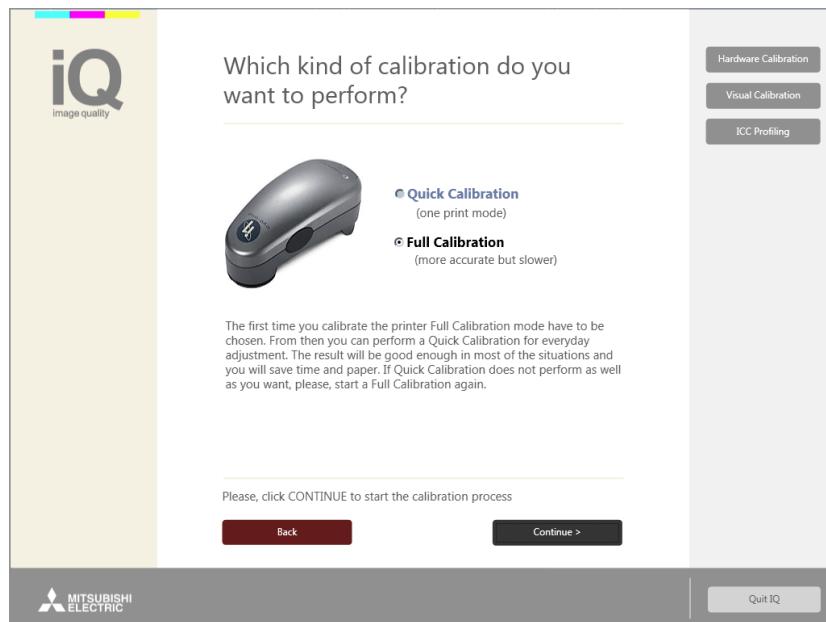


quality. You only have to press 'Close' to leave the iQ configuration screen or select another printing quality and start the process again.

### 5.3.1.2 Calibration with Eye-One device

With the Eye-One calibration device you will be able to obtain the best printing quality possible, even if you think that the default quality is good enough.

Start the calibration wizard and when you are asked whether you have or not an Eye-one device choose the option "Yes, I have an Eye-one device. After that, you will have to choose if you want to perform a full or a quick calibration.



Quick calibration has to be chosen only if you have performed a full calibration before. Full calibration will provide the best calibration for your printer, but it will require 5 prints in 10x15cm – 4x6 inch. Quick calibration can be done with only 1 print, and it is intended for everyday adjustment, but it is based on a previous full calibration. Quick calibration is only able to correct small deviations, but will work fine on most of the cases. When quick calibration does not perform well, it's time to proceed with a full calibration again.

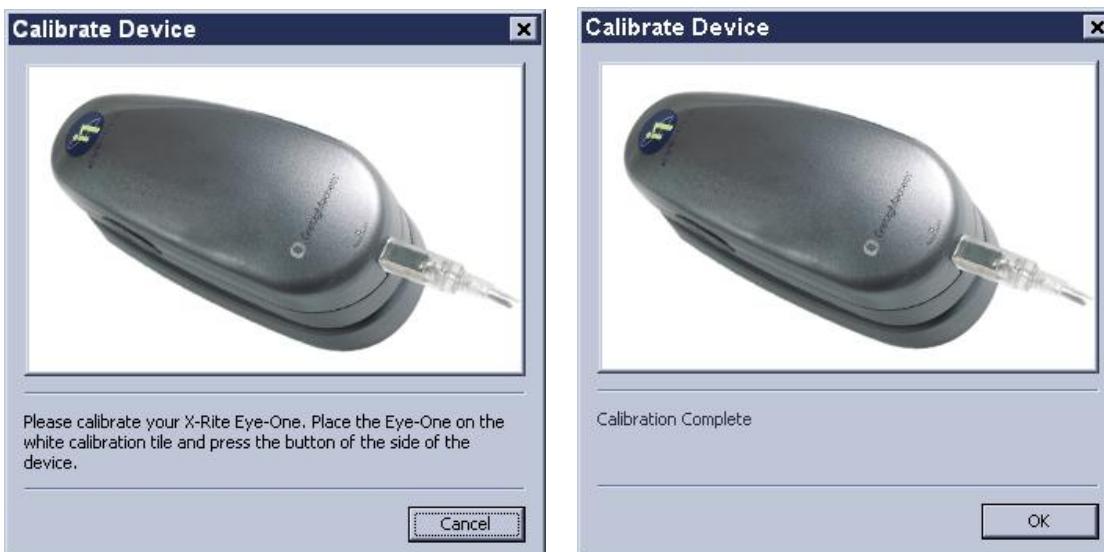
In this chapter, only full calibration will be explained, because it has more steps. If you understand full calibration you will be able to perform a quick calibration as well.

Click 'Continue' to start the calibration process. You will be prompted to connect Eye-One device. Connect it and click 'Ok' to continue. Calibrator application will be launched.

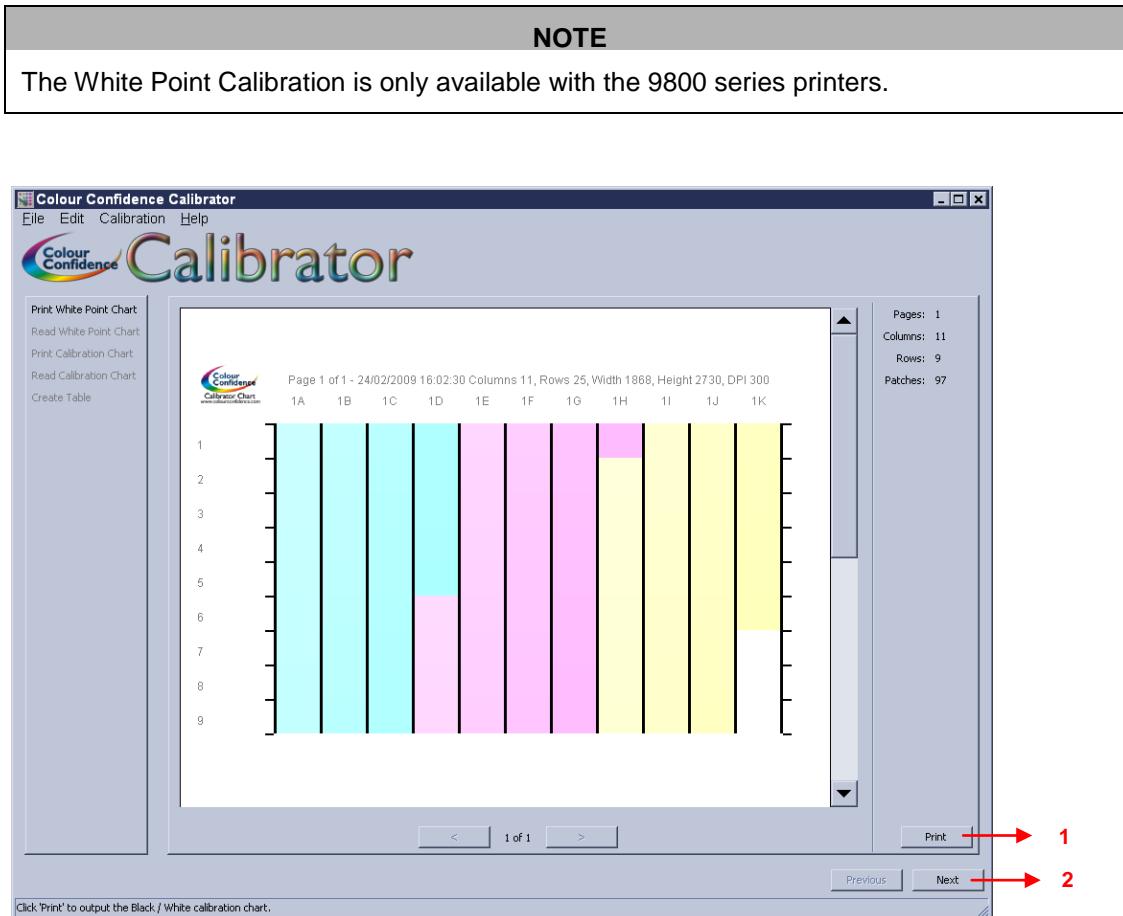
#### CALIBRATOR & PRINT PROFILER ACTIVATION CODE

When Calibrator is launched for the first time you will be prompted to insert an activation code. This code can be found inside the Eye-One case in a paper labelled "Calibrator Unlock Code". Please, note that the unlock code is case sensitive.

Next you will be prompted for device calibration. Follow the shown instructions and finally click 'Ok'.

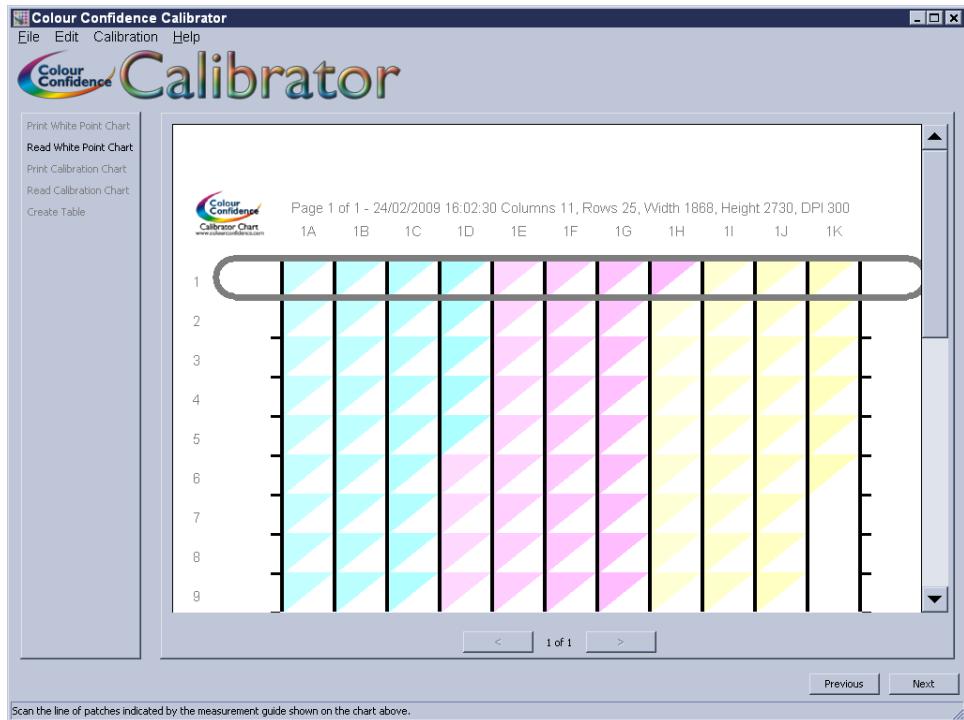


You will be able then to see the following screen:



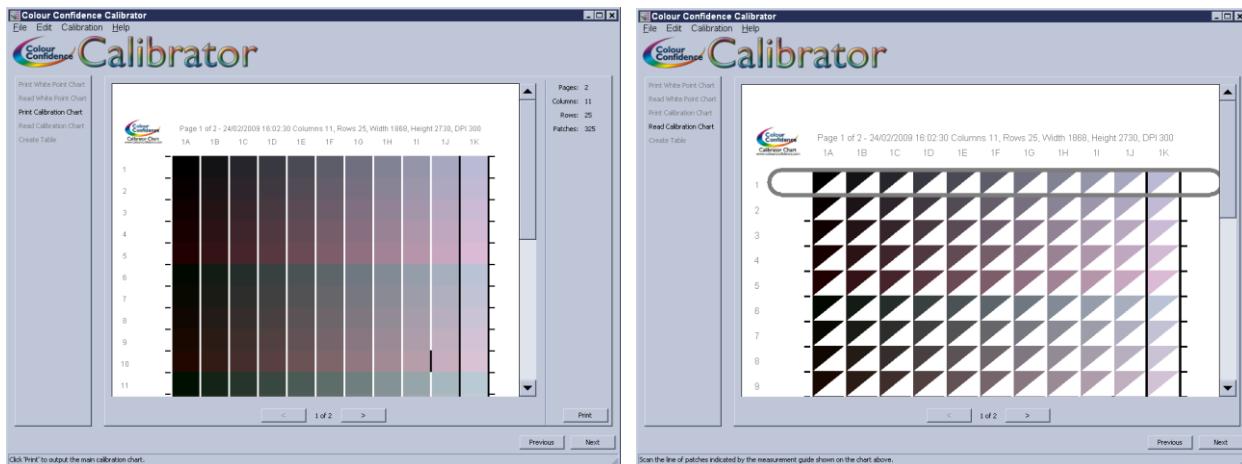
Press 'Print' button (1) to print the white point calibration card. Please, wait for the print to finish. Then press 'Next' button to continue (2).

Now you have to put the printed card on the reading support and read, row by row, as described in the point 5.2.2 *Eye-One operation*.



When finished, click 'Next' button to continue.

The following step will be greyscale calibration. You have to click 'Print' again. Some prints will be made, and then again you will have to push 'Next' button to continue.

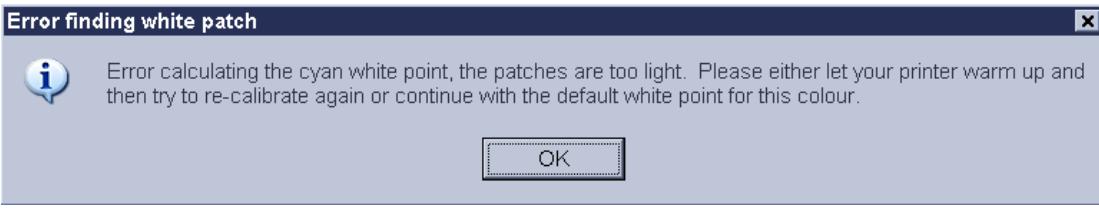


You will have to read the printed patches as described in 5.2.2 *Eye-One operation* point. When you finish reading one print, the page will change automatically. You only have to change the card in the reading support and start again with the following print.

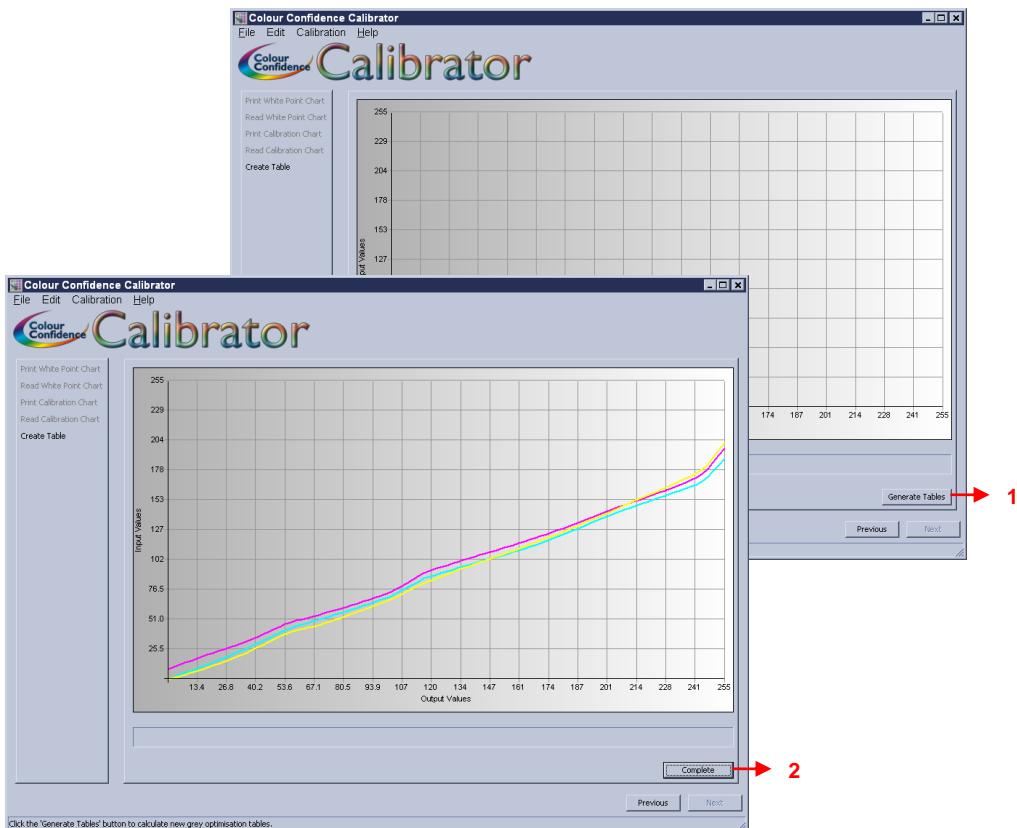
**NOTE**

Sometimes, depending on the printer model, it can appear the message below. Don't care as it is just an informative message.

The error may be caused by the fact that the printer is not warmed enough. But this doesn't prevent performing a good calibration.



Once you have finished reading all the rows of the different pages click 'Next' button to continue. This is the last screen, where you have to press the button 'Generate Tables' (1) in order to generate the calibration information. You will be able to see a graphics chart where the read information will be shown.



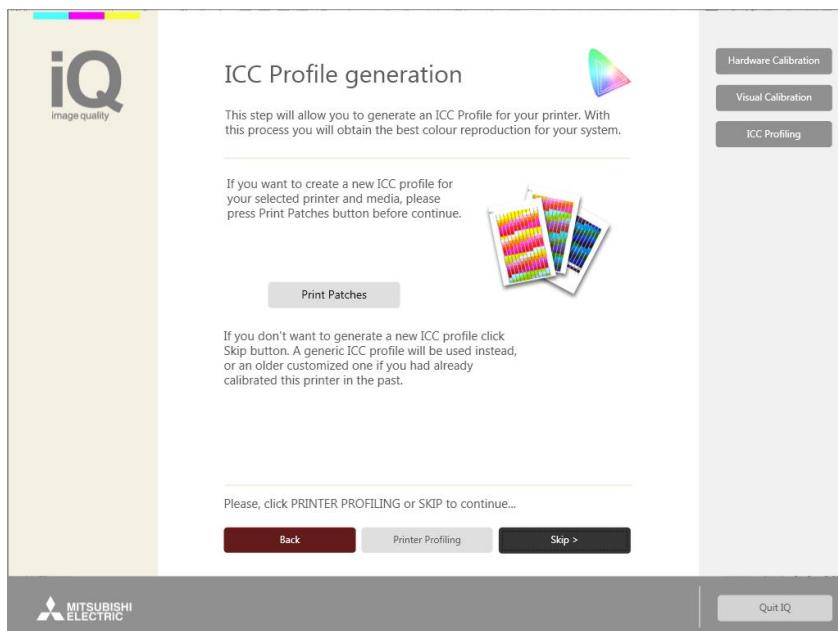
Finally press 'Complete' button (2) to exit the Calibrator application.

Now you have generated a calibration for your selected printer, paper and quality. Most users will find this calibration good enough, because can be used with the provided generic ICC profiles. The next screen will ask if you want to use the generic ICC profiles or if you want to improve even more the quality by generating a new profile for the selected printer, paper and quality settings.

### 5.3.2 Printer Profiling

You can access this screen from the 'ICC Profiling' shortcut button on the iQ screen or after calibrating a printer. It is highly recommended to perform a full printer calibration prior to profiling. Printer profiling should only be used for fine tuning and it is not intended for daily adjustment.

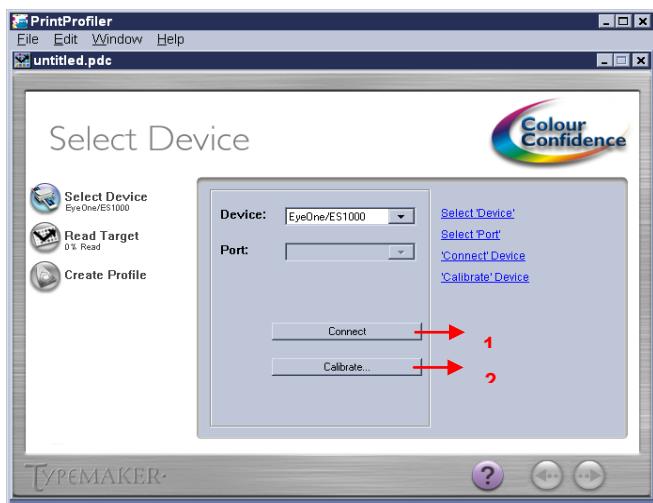
If you don't want to generate a new ICC profile, simply click 'Skip' button and the wizard will finish. Now we will explain how to generate a new ICC profile.



Firstly, click on 'Print Patches' button. Several patches for your selected printer and paper size will be printed. Wait until finished and then, click 'Printer Profiling' button to start the process. Print Profiler software will appear.

#### CALIBRATOR & PRINT PROFILER ACTIVATION CODE

When Print Profiler is launched for the first time, if Calibrator has not been started before, you will be prompted to insert an activation code. This code can be found inside the Eye-One case in a paper labelled "Calibrator Unlock Code". Please, note that the unlock code is case sensitive.



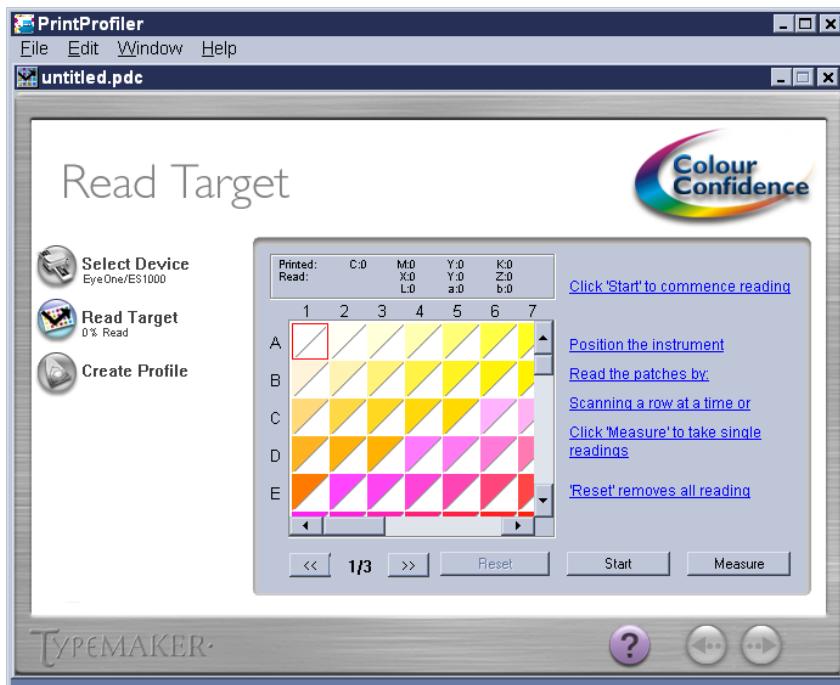
First of all, click 'Connect' button to establish the communication between the Eye-One device and the software.

Secondly click 'Calibrate' to calibrate the device. Follow the on-screen instructions and click 'Ok'.

After calibration, click the green right arrow on the bottom right of the screen to continue.



The following screen will appear.



Press 'Start' button before starting the reading process.

You will have to read the printed patches as described in 5.2.2 *Eye-One operation* point. When you finish reading one print, the page will change automatically on the screen. You only have to change the card in the reading support and start again with the following print.

When finished, click again the right green arrow to continue.

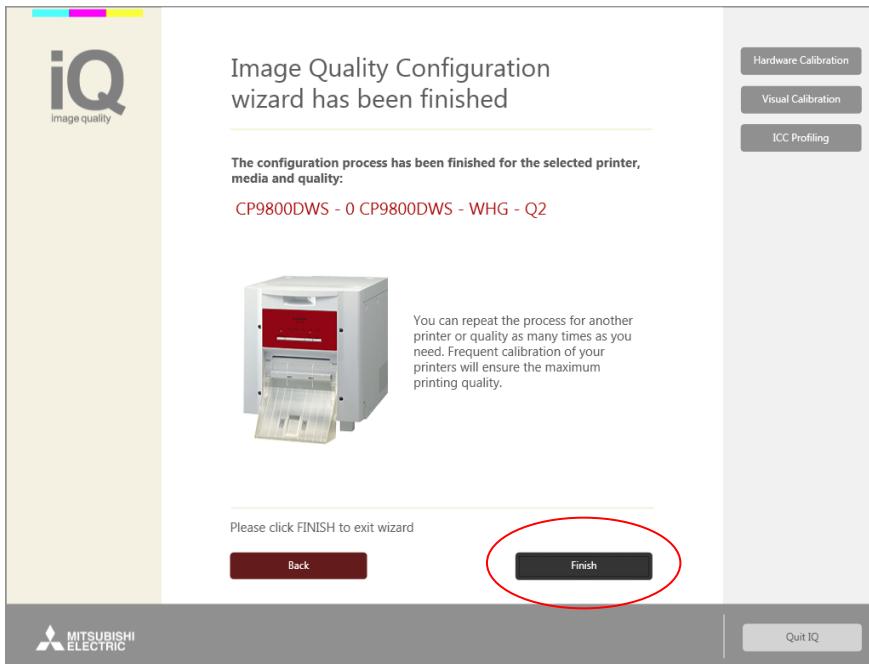
The following screen will appear:



Click 'Create Profile...' to generate the ICC profile. You will be asked about the name and folder where the file will be saved. Please, leave the default name and folder for a correct file detection.

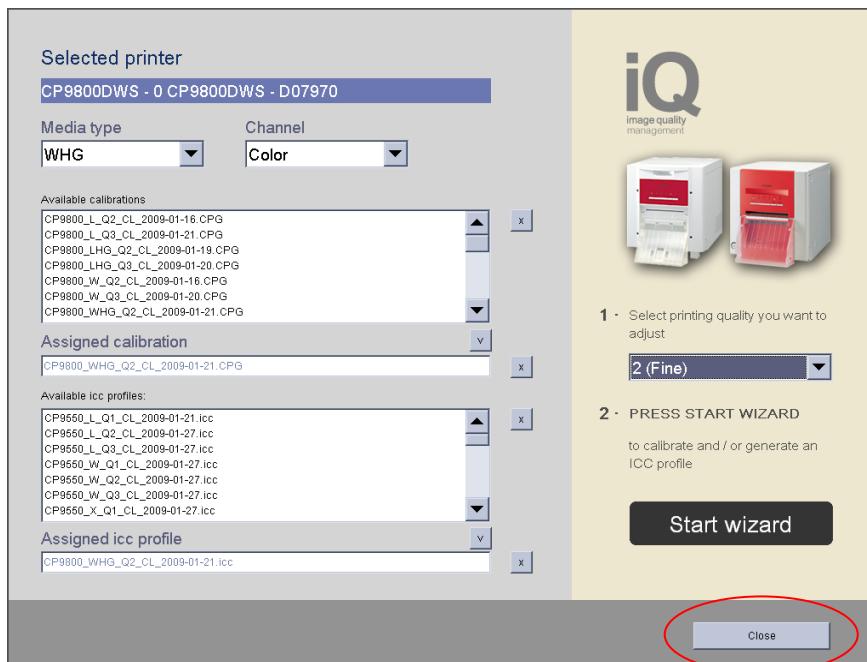
Then you have finished profiling your printer. Click the 'X' on the top right to leave Print Profiler application or Go to 'File-> Quit' menu.

After generating an ICC profile or skipping the ICC generation step you will find the Final screen. Click 'Finish' to leave the iQ management wizard and return to configuration screen.



The generated calibration and profile will be applied automatically to the selected printer, paper and quality.

You only have to press 'Close' to leave the iQ configuration screen or select another printing quality and start the wizard again.



### 5.3.3 Calibration and profiling the MPU unit

The MPU Sorter unity is composed by two printers. To perform a calibration and profiling it is necessary to do it individually to each printer composing the unit.

Please, follow the steps described in the chapter 5.3 which refers to the calibration and profiling of printers.

Remember that the colour patches are placed on the upper tray.

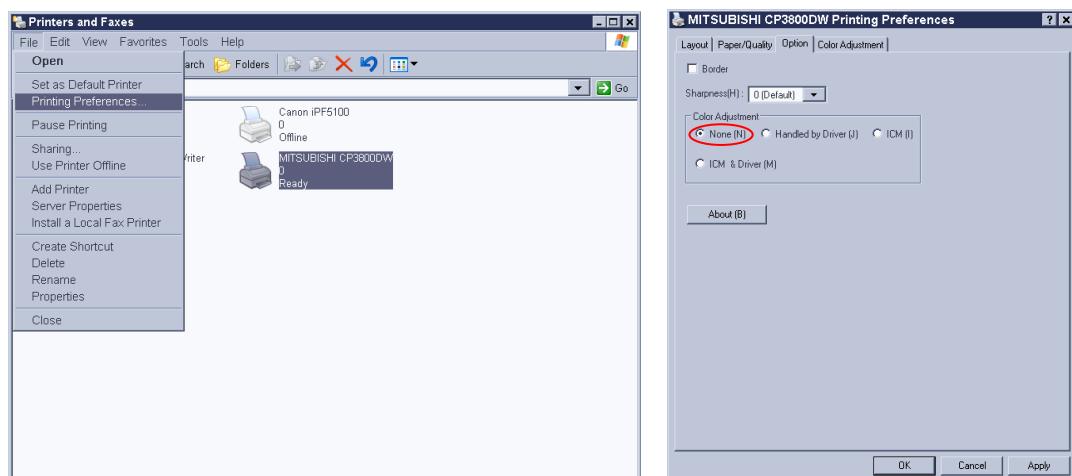
### 5.3.4 Profiling Windows driver based Printers (CP3800 series and Plotter Series)

Windows driver based printers have a special treatment when profiling. There are 2 main issues to take into account:

- 1) Windows driver ICC management has to be disabled.
- 2) Printing the adjustment patches has to be made through Print Profiler software instead of IQ Wizard 'Print Patches' button.

#### Profiling example for the printer CP3800:

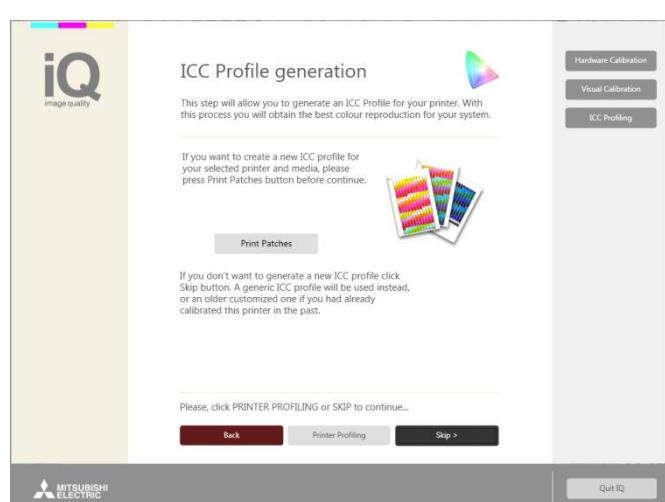
First of all, we have to disable windows driver colour managing. Go to 'Search Printers' screen and click 'Printers Control Panel' button. 'Printers and Faxes' window will appear.



Select CP3800 printer and go to 'File-Printing Preferences...'

Then select the tab 'Option' and change the 'Color Adjustment' setting to 'None (N)' as shown.

Then click Ok to save changes and leave the printing preferences menu. 'Printers and Faxes' window has to be closed too. This step has to be made only once. The setting keeps configured in Windows driver. Now we are ready to profile the printer through the IQ Wizard

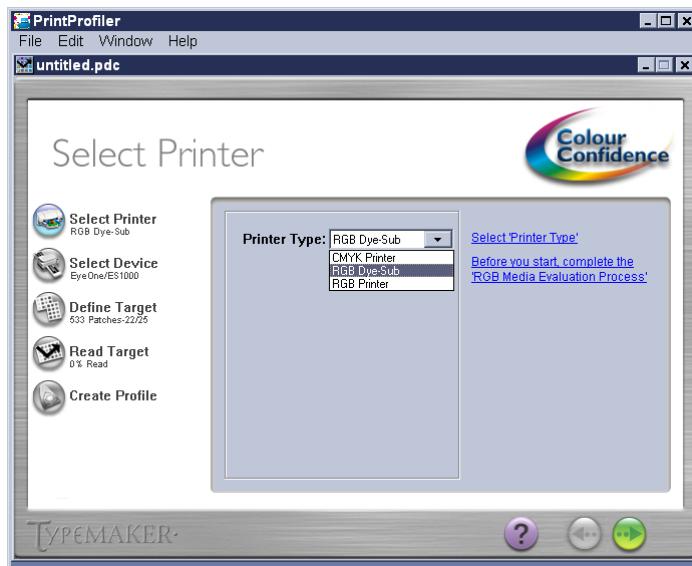


**Follow the instructions of the chapter 5.3 to start IQ Wizard selecting CP3800 printer in the printer list.**

Click 'Next' button on the IQ Wizard and the Printer Profiling screen will appear.

'Print Patches' button will be disabled, since interaction way for this printer is through the Windows

printing interface. Click 'Printer Profiling' to continue.



Print Profiler application will appear, with all options freely configurable. First of all, select the printer type.

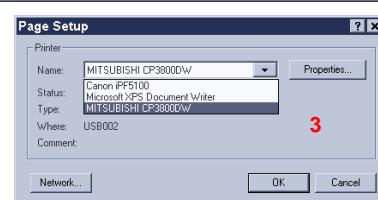
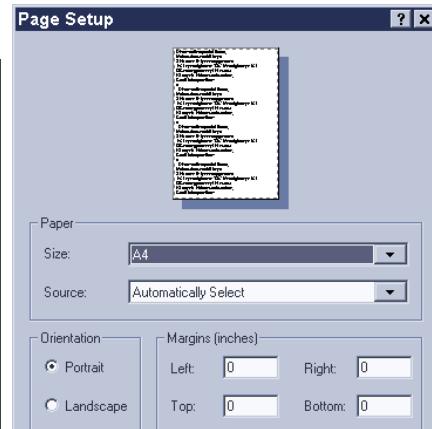
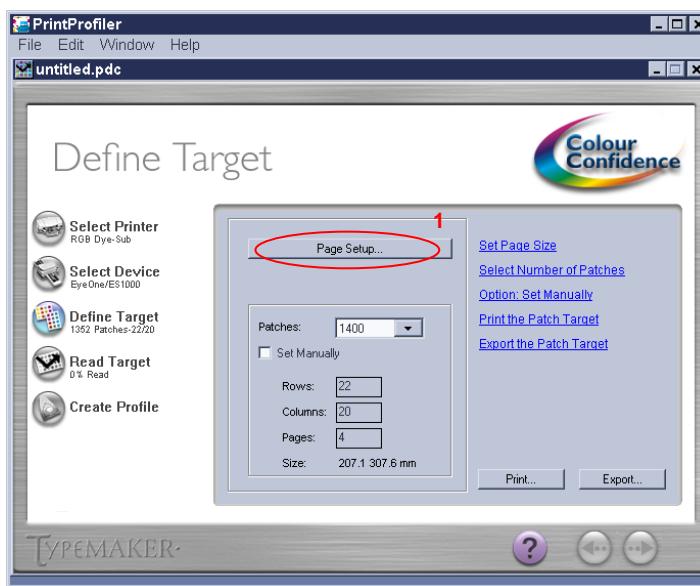
In case of CP3800 select RGB Dye sub (for Plotter series you should select RGB Printer). Click the blue links on the application in order to obtain more information.

Then click the green right arrow to continue to next step 'Select Device'.

Click 'Connect' button to establish the communication between the Eye-One device and the software and then click 'Calibrate' to calibrate the device. Follow the on-screen instructions and click 'Ok'. (See chapter 5.3.3 for detailed information).

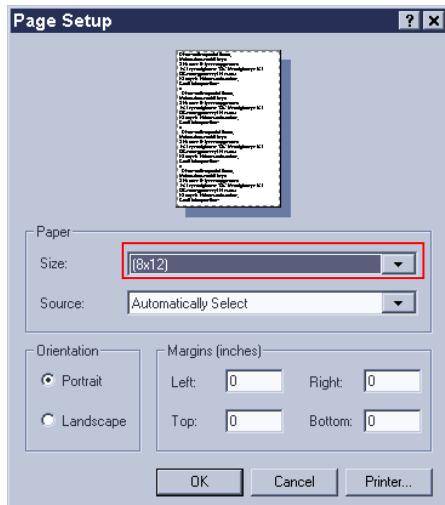
Click the green right arrow again. 'Define Target' step will appear.

Here we will be able to configure and print the patches for printer profiling.



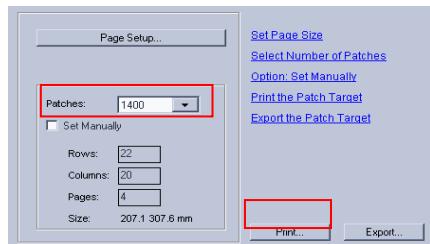
Click 'Page Setup...' to configure the printing output (1)

Then click on 'Printer...' (2) and select MITSUBISHI CP3800DW printer from the list (3). Click 'Ok' button. 'Page Setup' menu will now have information about the available printing sizes of the printer.

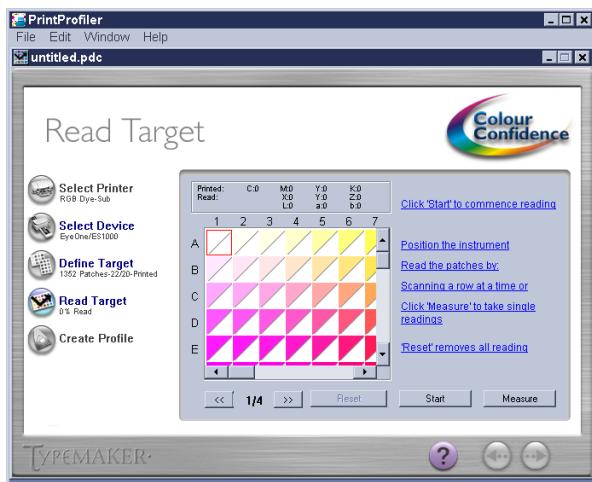


Now select the correct printing size according to installed media (8x10 or 8x12) and click 'Ok'.

The following step is selecting the number of patches that we want to print. For optimum results in dye sublimation printers, we recommend 1400 patches, but you can try a lower patch count.



Finally, press 'Print' button in order to obtain the printed patches before the next step.



Once printed, click right green arrow to continue with 'Read Target' step.

Click 'Start' before starting the reading process.

**Then follow the last steps described in chapter 5.3.3 to complete the ICC profile creation process.**

## 5.4 Compatibility

Not all the printers are compatible with the complete iQ management flow. There are some printers that are only compatible with ICC profiling.

### IMPORTANT REMINDER: ICC PROFILING WITH CP3800 & PLOTTER SERIES

CP3800 Series and Plotter Series printers are configured by default with a windows driver ICC profile. Please, disable ICC profiles in windows driver settings before creating a new ICC profile with iQ management wizard.

Please, refer to Chapter 5.3.4 for detailed information

PRINTER MODEL	CALIBRATION	PROFILING
CP95XX Series	✓	✓
CP9600 Series	✓	✓
CP98XX Series	✓	✓
CP3020 Series	✗	✓
CP3800 Series	✗	✓(*)
MPU	✓	✓
Plotter Series	✗	✓(*)
CP70 / CP707 Series	✓	✓

(\*) For these printers, profiling process requires proper windows driver configuration.

For printers not compatible with calibration, only ICC profiling will be enabled on the iQ wizard application.

## 5.5 Summary

There are 3 different scenarios you can apply:

- 1) **Using provided generic calibration files and generic ICC profiles.**  
The system is configured by default with this scenario when iQ mode is activated. If you do not perform any additional adjustment you will obtain a very good printing quality.
- 2) **Calibrating the printer (visual procedure or hardware attended procedure) and using the provided generic ICC profiles.**  
This option will provide you better than default results. Calibrating the printers will result in better colour consistency. It is a quick process, so you will not spend a lot of time, and you will improve a lot your printing quality.
- 3) **Calibrating the printer and creating new ICC profiles.**  
This is the option that will give you the best results, but requires more time for adjusting a printer.

### MITSUBISHI RECOMMENDS:

Acquiring an Eye-One device and performing a full calibration the first time (printer profiling optionally) and, periodically, re-adjust the printers with a quick calibration.

Please, read carefully chapter 5.3 to obtain detailed information and read the table below as well.

### 5.5.1 Printing quality level optimisation table

Printing Quality optimisation level	When...	Calibration	Profiling
<b>Minimum</b>	...you consider the printing quality with the default ICC is good enough.	-	-
<b>Recommended</b>	...plugging in a new printer.	<b>Full</b>	-
	...using a new format.	<b>Full</b>	-
	...changing the quality.	<b>Full</b>	-
	...having a printer with no calibration.	<b>Full</b>	-
	...changing the ink cassette.	<b>Quick</b>	-
<b>Optimum</b>	...plugging in a new printer.	<b>Full</b>	<b>Yes</b>
	...using a new format.	<b>Full</b>	<b>Yes</b>
	...changing the quality.	<b>Full</b>	<b>Yes</b>
	...having a printer with no calibration.	<b>Full</b>	<b>Yes</b>
	...starting the workday.	<b>Quick</b>	-

## 6 MPU Sorter

### 6.1 Introduction

The mass production unit MPU Sorter has been designed to achieve a high performance level and a higher easiness working due to its backprinting and sorting functions.

### 6.1.1 Requirements and compatibility

To be able to use the MPU Sorter it's mandatory to have an IT5000 with a Flexilab ClickPro software version 2.5.0 or higher.

In order to achieve the best results, use an IT5000 HW4 version, or higher, and plug in the MPU Sorter directly with the supplied USB connector. It's advised not to use an USB extender.

The MPU Sorter unit is compatible with Flexilab systems using PT6000, PT7000 or MT1E machines connected in Order Terminal mode to an IT5000 working with ClickPro software version 2.5.0 or higher.

## 6.2 Installation

Before connecting the unity to the IT5000, please check that you have a Flexilab Click Pro 2.5.0 version or higher and shut down all applications using the Monitor Manager.

Once the MPU Sorter is plugged in, please read thoroughly the on-screen instructions in order to install correctly the MPU Sorter unit.

Once the installation is accomplished, reboot the system in order to let the changes be applied.

To check the installation has been performed correctly, please verify that the MPU Sorter is shown now in the DispatcherAdmin screen. It must be shown as a red frame framing the contained printers.

Both printers are differentiated as the UPPER printer and the LOWER printer.



#### MITSUBISHI RECOMMENDS:

It's necessary to calibrate the printers contained in the MPU Sorter in order to achieve an optimum result regarding to printing quality. Please refer to the previous chapter to get more information about printer calibration.

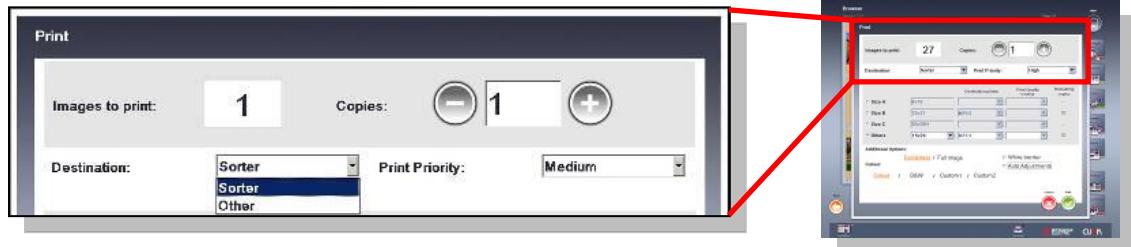
## 6.3 Working modes

A MPU Sorter unit must be always attached to an IT5000. The MPU Sorter is able to print local Click5000 orders (working as a single printer) and other ones coming from order terminals (working then as a central high production machine).

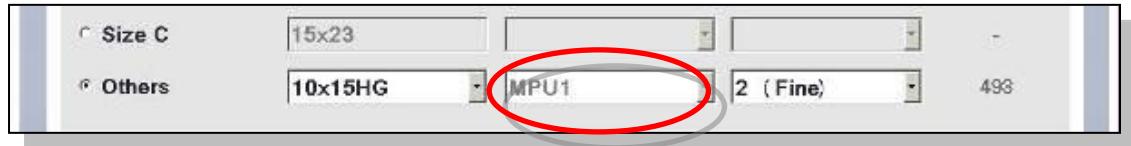
### 6.3.1 Working as a single printer

This working mode is only referred to the orders that are generated locally and printed with the MPU Sorter.

To generate and order for the MPU Sorter, choose the option labelled as “Sorter” in the field “Destination” of the Print page in CLICK.



Choose the available paper size and quality in MPU Sorter. Then choose the destination MPU. In case of having more than one, both will be listed. Otherwise, the MPU Sorter unit will be the default destination.



The MPU will only print orders sent with the option “Sorter” or, in case of having a printer inside the MPU Sorter with a specific format, it will also print orders with the options “Multi printers” or “Single printer”.

### 6.3.2 Working as a central high production unit

To be able to print with the MPU Sorter using an Order Terminal it is necessary to fulfil the requirement that at least one printer contained in the MPU Sorter has to be the only printer in the system with the desired format.

In the case where the MPU doesn't own exclusively a format, it's necessary to export the order to CLICK so as to resend it to the MPU Sorter.

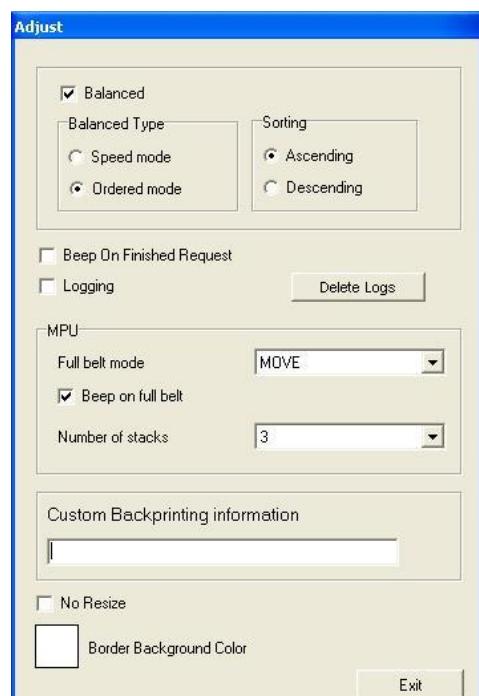
Please refer to the chapter 4.3.5 from the Click application manual to know how to export an order.

### 6.3.3 Compatible formats

The MPU unit is compatible with most of the formats supported by the 98xx series printers except those ones called composition, or multi-cut, formats. Please refer to the formats table from chapter 1.2.3 for further information about available formats.

#### NOTE

Composition or multi-cut formats are not available printing with a MPU Sorter.



## 6.4 Configuration

The configuration of the MPU Sorter is placed in general settings of PrintServer (see chapter 3). The

configuration is applied to every MPU Sorter attached to the system.

The fields configurable regarding of the MPU Sorter are the following.

#### 6.4.1 Balanced

This setting is ignored by PrintServer when printing with an MPU Sorter.

#### 6.4.2 Sorting

This option determines if the MPU Sorter starts printing the first picture or the last one.

- Ascending: The MPU Sorter will start printing the first picture.
- Descending: The MPU Sorter will start printing the last picture.

#### 6.4.3 Full belt mode

The possible values:

- STOP: MPU Sorter will stop printing until the stack is removed from the belt by the operator (only the stack on the sensor it's needed to be removed).
- MOVE: MPU Sorter will move the belt when it gets full. The first stack will fall in the belt tray and the MPU Sorter will keep printing.

#### 6.4.4 Beep on full belt

When this option is checked, the IT5000 will beep when the belt gets full.

#### 6.4.5 Number of stacks

This option is used to choose how many stacks are placed on the belt. It's possible to choose between 2 or 3 stacks. Depending on this number the capacity of the belt will vary between 110 (2 stacks) or 165 (3 stacks) photos.

#### 6.4.6 Custom Backprinting information

It allows to set a custom short information to be shown in the backprint, like the shopname, per instance. Maximum length is 19 characters for this field.

#### 6.4.7 Recommended configuration

To achieve an optimum performance, Mitsubishi recommends using the following configuration of PrintServer:

- Full belt mode: MOVE if the MPU Sorter is unattended, otherwise STOP.
- Beep on full belt: Activated
- Number of stacks: 2

##### MITSUBISHI RECOMMENDS:

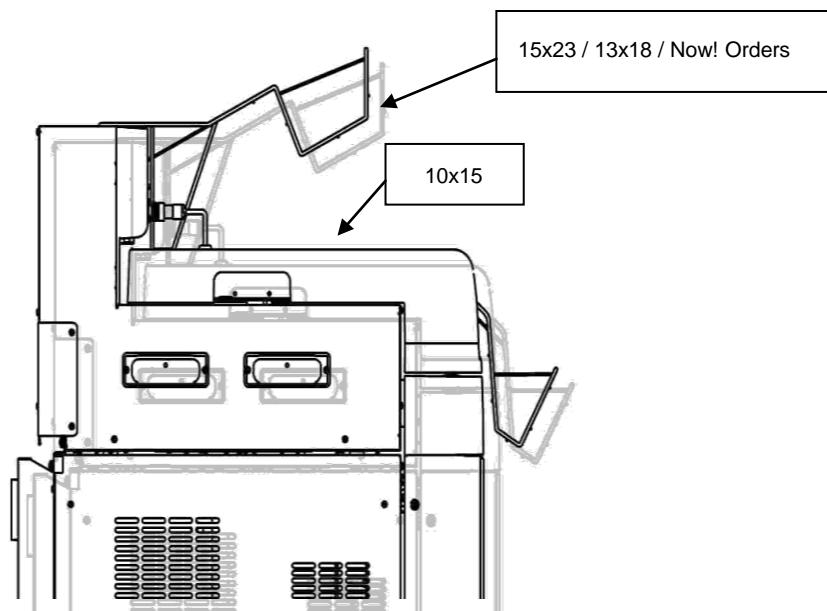
Do not use used paper or ink from another printer. The MPU Sorter unit performs better if both printers have the same amount of remaining copies. Please change also paper roll when ink cassette is exhausted.

## 6.5 Considerations

Printed orders are sent to the belt or to the upper tray depending on the paper size and the priority of the order. The orders with the format L – 10x15 are placed on the belt. The orders with X – 13x18 and W – 15x23 are placed on the upper tray. Moreover, the orders with “Now!” priority appear on the upper tray regardless of the format, as well as the colour patches while calibrating printers.

The number of stacks specified it's only considered in the orders placed on the belt. The capacity of the belt is about 110 photos (2 stacks) or 165 photos (3 stacks).

When changing from one paper size to another one, check the position of the paper selector switch is the correct one for the new paper size.



**References:**

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# **APPENDIX**

## **CD Burning**

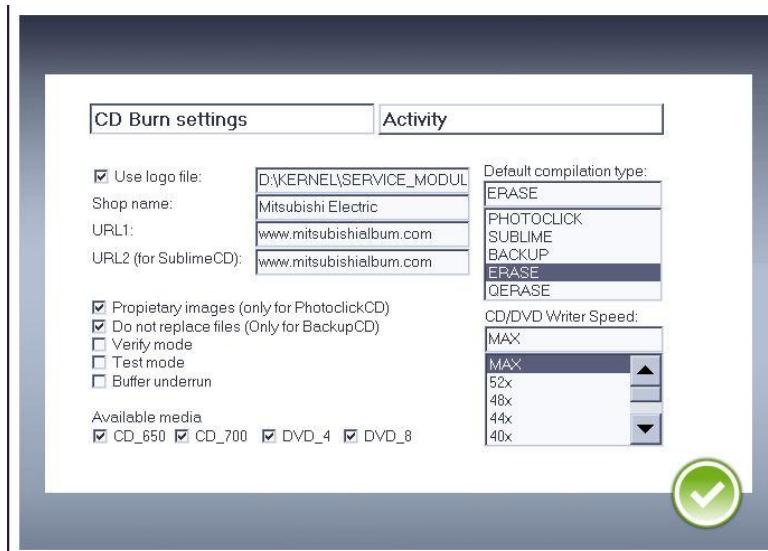


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# 1 CD Burning

CD Burning is a Service Module. It is for burning images onto a CD/DVD. This CD/DVD can be executed on a computer to show the burned images, with no need to install any application.



## 1.1 CD Burning settings

All the configurable parameters of this Service Module can be viewed by pushing this button.

- **Shop name:** This shop name will be shown on the application recorded on the CD/DVD.
- **URL1:** Internet address. This address will be shown on the application recorded on the CD/DVD.
- **URL2:** Internet address. This address will be shown on the application recorded on the CD/DVD. This second address is only available for SUBLIME (see SUBLIME).
- **Proprietary images:** proprietary image format. When this option is activated the images recorded on a CD/DVD can only be viewed on DPS systems.
- **Do not replace files:** when this option is activated, all the files saved in the destination file beforehand will be protected. If an attempt is made to save an existing file, the one already saved has priority, while if this option is not activated the new file will overwrite the previously saved file.
- **Verify mode:** saves onto the CD/DVD with verification. While saving, it checks to see that it is being done correctly. This increases the CD/DVD saving time.
- **Buffer underrun:** Saving takes place with mistake proofing. Leaving this option activated is advisable.
- **Default compilation type:** defines what type of application will burn onto the CD/DVD.
  - SUBLIMECD: an application allowing saved images to be viewed and printed on a Mitsubishi printer, the images to be edited and the images to be uploaded to Mitsubishi Album.

- BACKUP: burning of images onto a CD with no application to view them.
- **CD/DVD Writer Speed:** the speed at which burning takes place can be selected. MAX defines the maximum speed regardless of the burner model. If errors have taken place during several burning sessions, we advise selecting 8x as the burning speed.

## 2 Activity

Shows the current state of the service module.

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